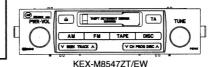
## Pioneer sound.vision.soul

Service Manual TOYOTA



ORDER NO. CRT3321

**RECEIVER ASSY, RADIO** 

# KEX-M8547zT-91/EW

KEX-M8647zT/EW KEX-M8647zT-91/EW

VEHICLE	DESTINATION	PRODUCED AFTER	OEM PARTS No.	ID No.	PIONEER MODEL No.
LAND CRUISER PRADO	EUROPE	August 2004	86120-60461	P3745	KEX-M8547ZT/EW
LAND CRUISER PRADO	EUROPE	August 2004	86120-60461	P3745	KEX-M8547ZT-91/EW
LAND CRUISER PRADO	EUROPE	August 2004	86120-60451	P3746	KEX-M8647ZT/EW
LAND CRUISER PRADO	EUROPE	August 2004	86120-60451	P3746	KEX-M8647ZT-91/EW



PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2004

#### This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-1011	CRT2406	3L	Cassette Mech. Module : Mech. Description, Disassembly

3

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

This service manual does not describe the CD test mode.

For the operations in the CD test mode, refer to the CD player's service manual.

2

Supplementary model is identical to the original except for the addition of following items.

	* : Non spare part
	KEX-M8547ZT-91/EW
Description	KEX-M8647ZT-91/EW
Polyethylene Bag	CEG1026
Cover	CEG1045(x2)
Carton	CHG4857
Contain Box	CHL4857(x1/4)
* Air Cap	CHW1947

KEX-M8547ZT/EW

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This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

## Service Precaution



repair complex products such as those covered by this manual.

- You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
- 2. When you exchange the CN473 (mentioned P.6 PART No.11) for new part. Cut all terminals about 0.5mm to 1mm. (There is some possibility to touch the terminal with under chassis because of long terminals.)

[ Important symbols for good services ]

In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

#### 1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

#### 2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

#### 3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

#### 4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

#### 5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

KEX-M8547ZT/EW

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CONTENTS	
SAFETY INFORMATION	
2. EXPLODED VIEWS AND PARTS LIST	f
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# 1. SPECIFICATIONS

General
Power source 13.2V(10.5V - 16.0V allowable)
Backup current Less than 0.3 mA
Grounding system Negative type
Weight
Tape player
Tape Compact cassette tape (C-30 - C-90)
Tape speed 4.76 cm/sec.(+0.14 cm/sec.,-0.05 cm/sec.)
Wow & flutter Less than 0.2 %(WRMS)
Fast forward/rewind time Less than 120 sec. for C-60
Stereo separation More than 30 dB
Signal-to-noise ratio More than 40 dB
FM tuner
Frequency range 87.5 - 108.0 MHz
Usable sensitivity $\ .\ .\ .\ .$ . Less than14 dBµV (S/N: 30 dB)
Signal-to-noise ratio More than 46 dB(54dB $\!\mu$ input)
Distortion Less than 1.5%
Digital noise Less than 25 mVp-p (74 dB $\!\mu$ input)
MW tuner
Frequency range 522 - 1,611 kHz
Usable sensitivity $\ . \ . \ . \ .$ Less than 34 dBµV(S / N : 20 dB)
Selectivity More than 20 dB (±9 kHz)
Signal-to-noise ratio More than 42 dB (74 dB $\!\mu$ input)
Distortion Less than 1.5%
····
LW tuner
Frequency range
Usable sensitivity Less than 40 dB $\mu$ V(S / N : 20 dB)
Selectivity More than 20 dB (±9 kHz)
Signal-to-noise ratio More than 42 dB (74 dBμ input)
Distortion Less than 1.5%

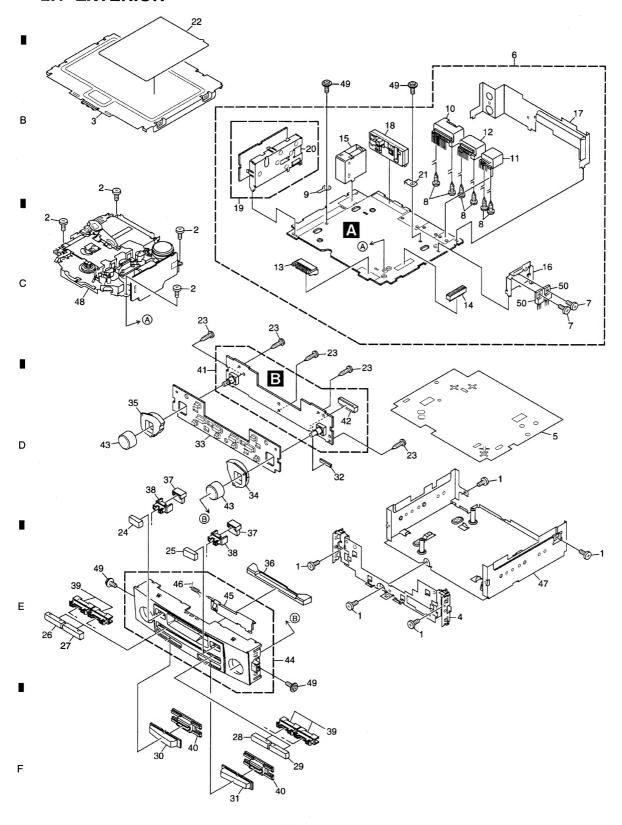
KEX-M8547ZT/EW

## 2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by " \* " are generally unavailable because they are not in our Master Spare Parts List.

- Screw adjacent to \(name{a}\) mark on the product are used for disassembly.
- For the applying amount of lobricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

#### 2.1 EXTERIOR



5	6	-	7	8

#### (1) EXTERIOR SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No.	<b>Description</b>	Part No.	
1	Screw	BMZ30P050FTC	26	Button	See Contrast table(2)	
2	Screw	BSZ26P060FTC	27	Button	See Contrast table(2)	Α
3	Upper Case	CNB3080	28	Button	See Contrast table(2)	
4	Front Frame	CNC9684	29	Button	See Contrast table(2)	
5	Insulator	CNM7528	30	Button	See Contrast table(2)	
			0.4	D. H	Coo Contract table(0)	
6	Main Unit	See Contrast table(2)	31	Button	See Contrast table(2)	
7	Screw	BMZ30P060FTC	32	Cushion	CNM9194	•
8	Screw(M3x6)	CBA1393	33	Rubber	CNV6939	
9	Terminal(CN502)	CKF1064	34	Lighting Conductor	CNV6942	
10	Connector(CN801)	CKM1322	35	Lighting Conductor	CNV6943	
11	Connector(CN473) *1	CKM1350	36	Lighting Conductor	CNV6944	В
12	Connector(CN472)	CKM1351	37	Lighting Conductor	CNV6948	
13	Plug(CN804)	CKS3539	38	Holder	CNV6951	
14	Connector(CN353)	CKS3568	39	Holder	CNV6952	
15	Antenna Jack(CN501)	CKX1024	40	Holder	CNV6953	
			41	Keyboard Unit	See Contrast table(2)	•
16	Holder	CNC9686	42	Socket(CN901)	CKS3552	
17	Rear Frame	CND2155		Knob Unit(TUNE)(PWR, VOL)	CXB7979	
18	FM Tuner Unit	CWE1679	43 44	Grille Unit		
19	FM/AM Tuner Unit	CWE1773			See Contrast table(2) CAT2293	
20	Holder	CNC8855	45	Door	CA12293	С
21	Terminal(CN802)	VNF1084	46	Spring	CBH1371	
22	Shield Unit	CXB9781	47	Chassis Unit	CXC3861	
23	Screw	BPZ20P080FTC	48	Cassette Mechanism Module	EXK4290	
24	Button	See Contrast table(2)	49	Screw	ISS26P055FTC	
25	Button	See Contrast table(2)	50	Transistor(Q810, 811)	2SB1185	

(2) CONTRAST TABLE KEX-M8547ZT/EW and KEX-M8647ZT/EW are constructed the same except for the following:

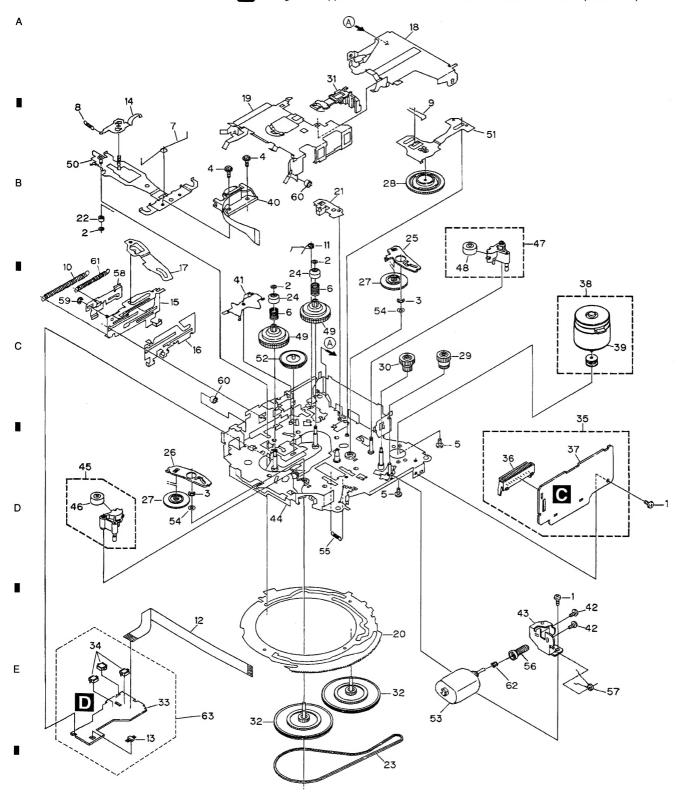
Mark	k No. Description		KEX-M8547ZT/EW	KEX-M8647ZT/EW
	6	Main Unit	CWM9554	CWM9555
	24	Button	CAC7276(TA)	CAC7277(CS-EJECT)
	25	Button	CAC7278(CS-EJECT)	CAC7279(TA)
	26	Button	CAC7280(DISC)	CAC7268(AM)
	27	Button	CAC7281(TAPE)	CAC7269(FM)
	28	Button	CAC7282(FM)	CAC7270(TAPE)
	29	Button	CAC7283(AM)	CAC7271(DISC)
	30	Button	CAC7284(CH, PROG, DISC)	CAC7272(SEEK, TRACK)
	31	Button	CAC7285(SEEK, TRACK)	CAC7273(CH, PROG, DISC)
	41	Keyboard Unit	CWS1338	CWS1339
	44	Grille Unit	CXC3340	CXC3341

<sup>\*1 :</sup> The cautions in the case of exchanging parts (mentioned P.7 PART No.11) are indicated to P.3.

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# 2.2 CASSETTE MECHANISM MODULE

For grease application, refer to the service manual for CX-1011 (CRT2406).



KEX-M8547ZT/EW

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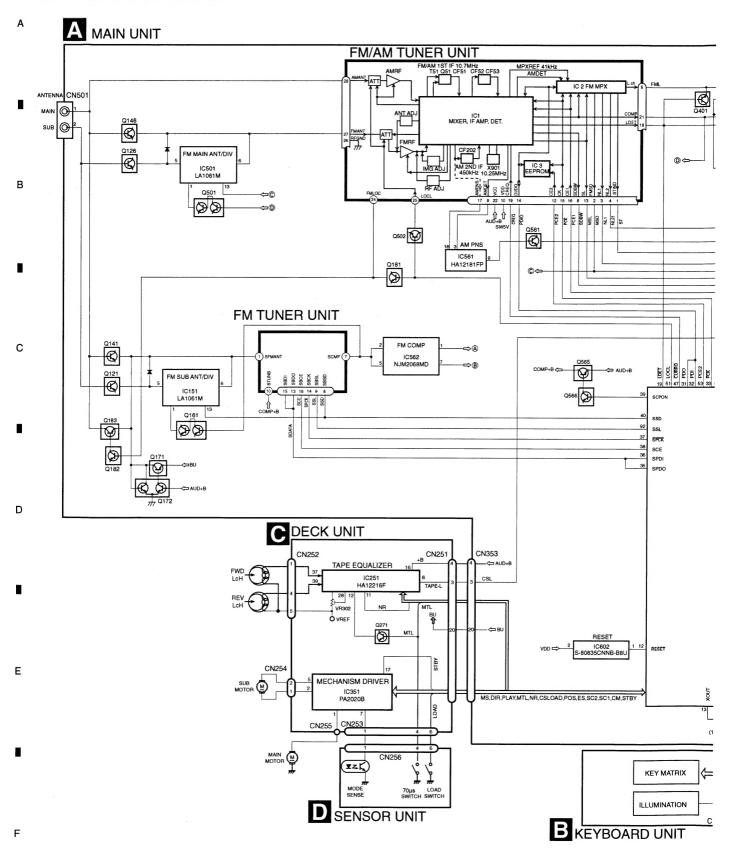
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ASSET	5 <b>TE MECHANISM MOD</b> U	6 JLE SECTION PARTS	LIST	7	8	ı
lark No.	<u>Description</u>	Part No.	Mark No.	<b>Description</b>	Part No.	
1	Screw	BSZ20P040FTC	50	Head Base Unit	EXA1611	
2	Washer	CBF1037				,
3	Washer	CBG1003	51	Lever Unit	EXA1587	
4	Screw	EBA1028	52	Gear Unit	EXA1596	
5	Screw	BMZ20P022FTC	53	Motor Unit(M2)	EXA1660	
			54	Washer	HBF-179	
6	Spring	EBH1653	55	Spring	EBH1537	
7	Spring	EBH1642				
8	Spring	EBH1641	56	Worm Gear	ENV1564	
9	Spring	EBH1626	57	Spring	EBH1672	
10	Spring	EBH1627	58	Lever	ENC1548	
	9		59	Washer	YE15FTC	
11	Spring	EBH1648	60	Tube	ENM1039	1
12	Cord	EDD1024				
13	Photo-reflector(Q101)	EGN1004	61	Spring	EBH1645	
14	Arm	ENC1526	62	Spring	EBH1545	
15	Lever Unit	EXA1610	63	Sensor Unit	EWM1041	
	LOVOI OTIIL	2,011010				
16	Lever	ENC1543				
17	Arm	ENC1532				
18	Frame	ENC1533				
19	Holder	ENC1547				
20	Gear	ENC1547 ENC1535				
20	Geal	ENC 1355				(
21	Arm	ENC1550				
22	Roller	ENR1040				
23	Belt	ENT1027				
24	Collar	ENV1508				
25	Arm	ENV1539				ı
26	Arm	ENV1540				
27	Gear	ENV1569				
28	Gear	ENV1547				
29	Gear	ENR1044				
30	Worm Wheel	ENV1559				[
31	Lever	ENV1551				
32	Flywheel	ENV1607				
33	Gathering PCB	ENX1073				
34	Switch(S101,S102,S103)	ESG1007				ı
35	Deck Unit	EWM1031				
36	Plug(CN251)	CKS3540				
37	Gathering PCB	ENX1066				
38	Motor Unit(M1)	EXA1618				E
39	Motor	EXM1035				
40	Head Assy(HD1)	EXA1594				
41	Arm	ENC1537				
		EBA1031				
42	Screw	ENC1559				1
43	Bracket Chassis Unit					
44 45	Chassis Unit Pinch Holder Unit	EXA1636 EXA1608				
	Dinah Dalian	ENIV4540				
46	Pinch Roller	ENV1518				î
47	Pinch Holder Unit	EXA1607				
48	Pinch Roller	ENV1518				
49	Reel Unit	EXA1625				

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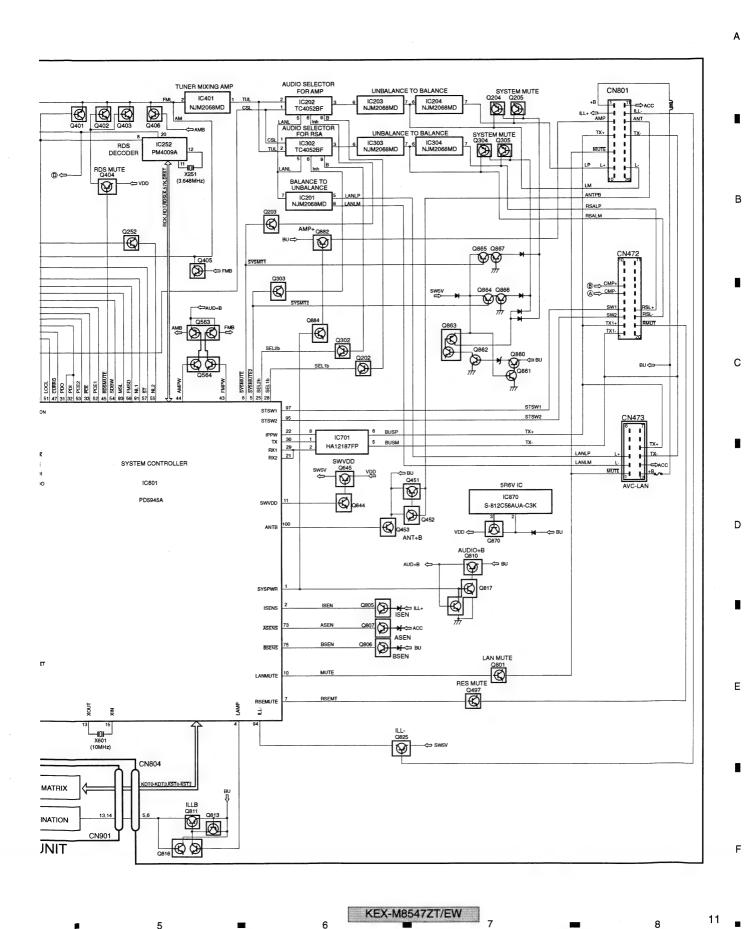
## 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

## 3.1 BLOCK DIAGRAM



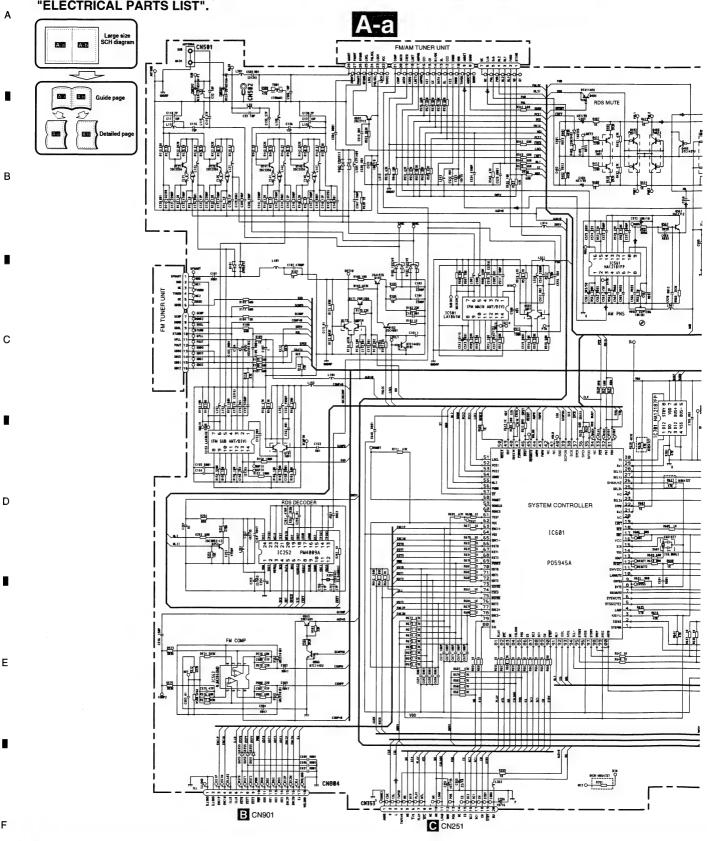
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KEX-M8547ZT/EW



## 3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



KEX-M8547ZT/EW

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Decimal points for resistor and capacitor fixed values Symbol indicates a capacitor.

No differentiation is made between chip capacitors and

0.022 → R022

The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

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KEX-M8547ZT/EW

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discrete capacitors

TUNER MIX 1 BK **多刺動** SWVDD 9645 2841162 \$ **1** 5993 至二十章 A-b 4 **"1**" 188 1813 4 A22 BN2- 2 2 D15 BN2+ C 9561 SC2717 R568 ZRZK 100 E8567 NLT ∠ 00A 00 Z 8 YBT2 1 015 1C701 HA12187FP FMS × FMS FMS 17/+58 M 17/+58 M ě O-C231 6888P 16561 HA12181FP PNS R559 160K Mesi elk RDS MUTE 2 P M Z I В | 10XIO | 10XI 8623 888 8623 688 ¥ **∕**010a NC NC 14 14 14 14 150 188 5450 DIANTAEU PIANTAEU OLDET2 7 C484 487/35 SPDI SPCK SCE 483K 8485 8815 C485 SCPON SW5V ROSE 189 9150 2007 158 20052 9150 189 L150 ] \* E ેૄઁ FAL R541 688 SDBW PCE1 PCE1 F542 688 CREQ NS43 68 NL1 NC+ 8158 DRST 84 7220 74 94903 21 Q
20 Q
NF1 Q
NF1 Q
HFS Q
EMEQ
EMEQ
EMEQ O. 2 FMSD 5 NL1 С FM MAIN ANT/DIV) d001 150 188 6050 (9125) 01 0150 (9125) 01 0150 9051 6† 05 اع اع اح 9+001 001 100 011 100 021 100 KDSCK C252 8881 100 Ксћ M + 2+2H 52 REBS RDZEK 821 180 1001 PCE2 R589 338K 8 1989 E150 1015 10/16 91/01 C252 E03 2250 ADD ONINIAN -AGOS 230 89 8258 88 8258 88 8258 89 8258 89 8258 5157 IS 00/10 乳 FM/AM TUNER C 183 A-a 5+2A51 (810 計 LDET T301 E I D COPA

LANCC C S ACC

FMFOCT S FMF

EMFOCT S FMF

EMF

EMFOCT S FMF

EMFO M8+ 9+5N UB N252 41K 307M-7157 012901 623 583K 2358 C213 681 253 Mis 48 R186 188 NE DESM 1001 1050 - - N - 1 4V I NCONL SCHPD RIJS BR2K C1+8 #81 0132 122322 C1+6 15b C1+6 8801 81 22 220 81 43 33 記十章 816 10 816 10 3 E SCOMP 48 SW5V SDATA HI13 1 SCMPD C146 2288b C143 12b C144 8881 478 1381 478 11888 13 8162 228K and the Ε ٠<u>٠</u> ١٩٤٤ 6142 4100b 812 18 8143 150 6141 5588b 5 81 \$2 18 81 \$2 285K R164 47K GLZ SE10 C33 - Bp CN205 C586 398P (912) 4180b (912) 91 (510) (912) 91 (510) (912) 1518 (912) 1518 C153 8001 (C) CPHSS12 5 UZIJUT R1 29 22 C1 58 15b 81 + 18 CN501 Id-Aliteoral Acon SB00 SBCK SBDI R152 18K MISSI LAISEN R1 54 55 O SCIP 2217 I ME -6 SUB ¥ GND NC TYMON NC SBSD SCAP DGND SBSL SPLL POUT SBCK SBCK SBCK FM TUNER UNIT O-KEX-M8547ZT/EW

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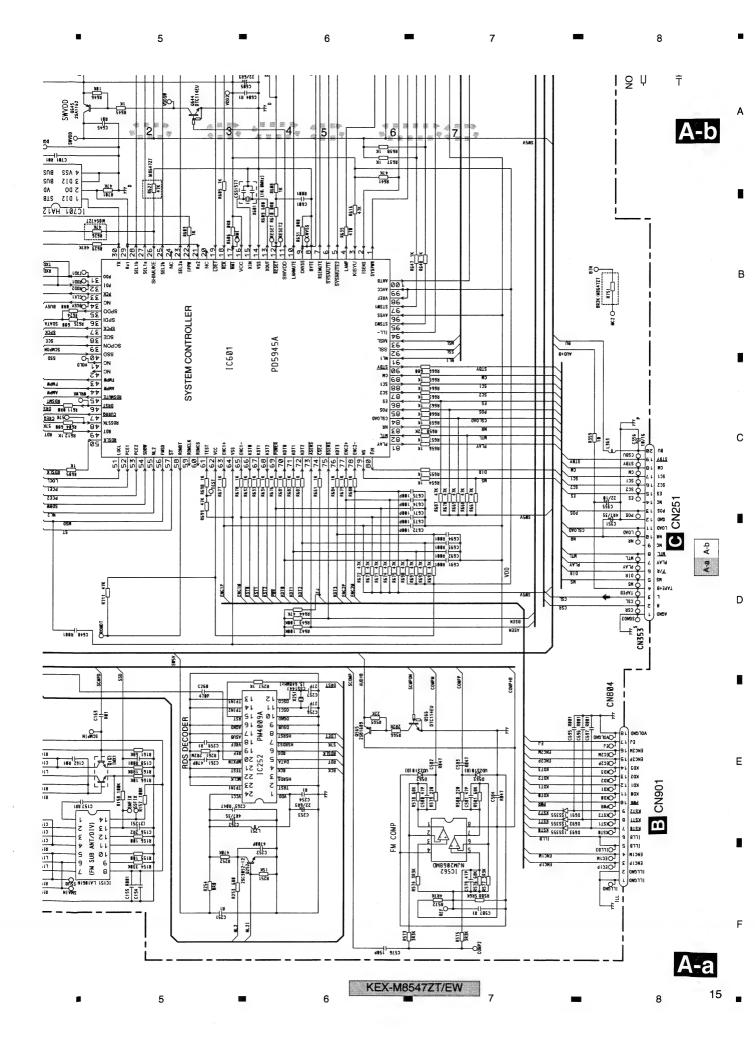
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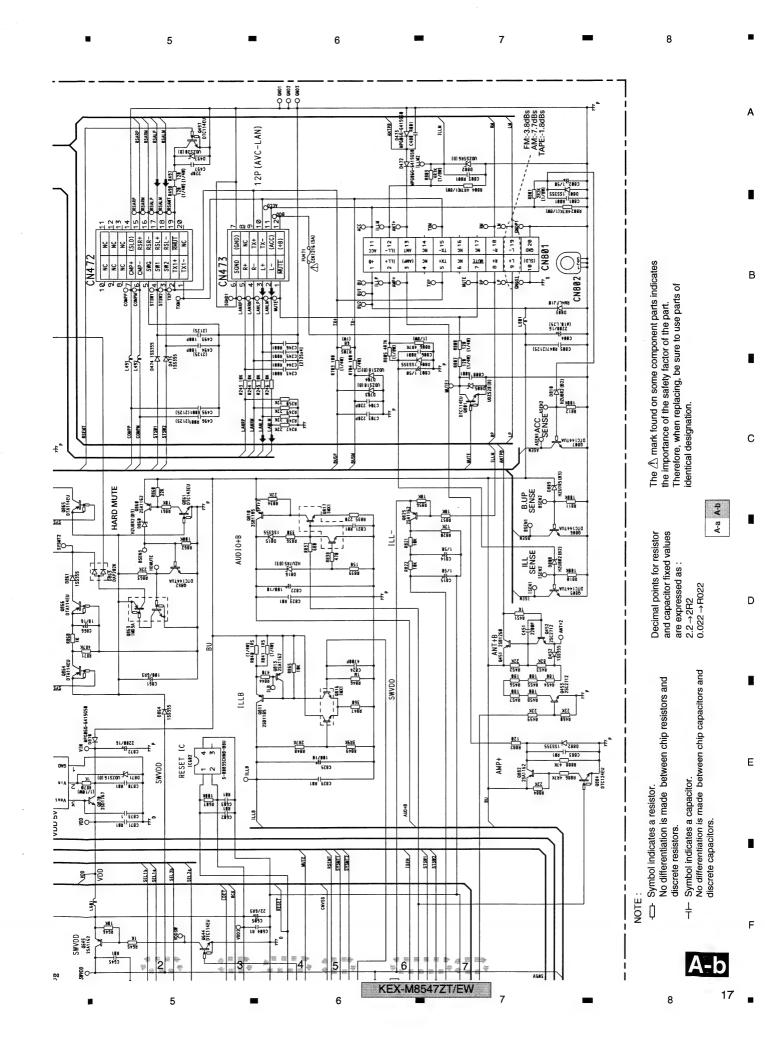


A MAIN UNIT (AMP) 744 R+ RSARP RSARW R-RSALE RSALE L+ (RSA) C251 558b C258 558b C528 558b C550 5586 C253 558b C228 558b 8222 18K KZZI I OK NB1 18K KB55 18K WEL 4773 8552 1 DK 8353 10K В C2377 C237 C235 C235 C235 4R7/35 C236 487/35 C336 CS83 1888b SYSTEM MUTE SYSTEM MUTE C282 1888b C28+ 11 SYS FINANCE CS81 1880b CS85 11 C381 1880 1880b C385 1880 487/35 C224 4R1/35 C225 C325 UNBALANCE TO BALANCE C324 R227 188 С R320 16K UNBALANCE TO BALANCE **≣**0≥ HARD MUTE DIANTAEU DIANTAEU A-a A-b 0150 NAMZBERMD 颤声 劉莱 6882 6881 C588 807 2 7 N 182 2 7 N 182 2 7 N 182 2 7 N 183 2 7 N 183 2 7 N 183 2 8 1 N 183 2 N 183 1sh VEE D AMD+8
AUDIO SELECTOR
FOR AMP 334 AUDIO SELECTOR FOR RSA VIEV YOUT VIEV 91/81 0863 -MITA WILK YOUT WIEV 91/18+ 912 10305 1/2VCC AUD+B TO UNBALANCE 2200/16 CB72 FM:-9.5dBs AM:-13.4dBs -TAPE:-7.5dBs Ε FM:-9.5dBs AM:-13.4dBs <sup>-</sup> TAPE:-7.5dBs C232 1100/683 CB71 RB1 ş ş-TUNER MIXING AMP C417 398P F 1 BK **多利勒** SWVDD 9645 28A1162 2583 2584 1837 AKKZ) \$ **1** E#93 KEX-M8547ZT/EW 1 2 3 4

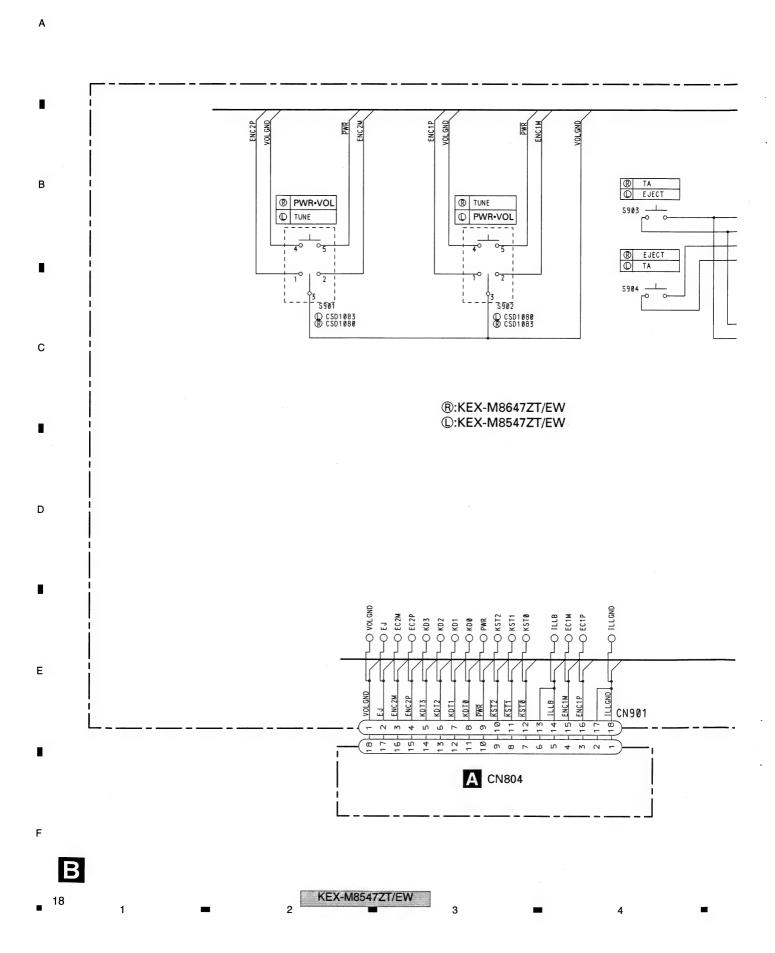
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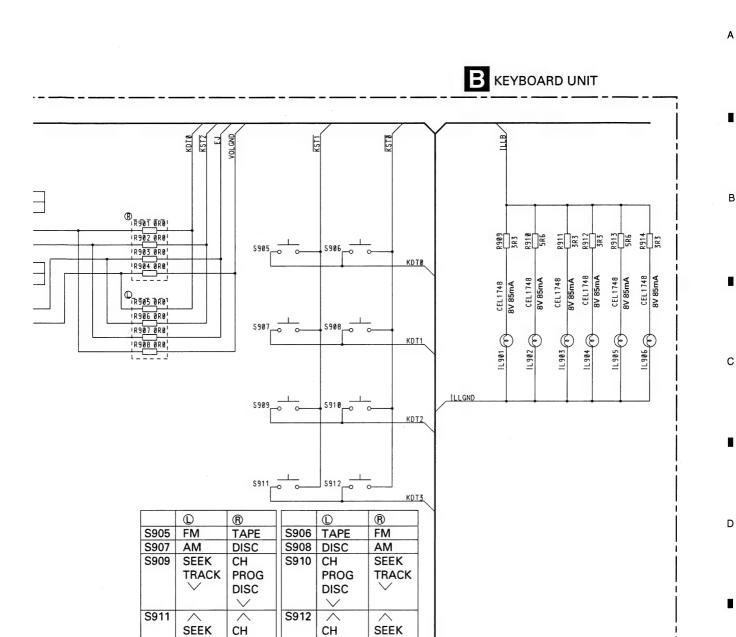
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### 3.3 KEYBOARD UNIT





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**TRACK** 

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**PROG** 

DISC

**PROG** 

DISC

**TRACK** 

KEX-M8547ZT/EW

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C DECK UNIT S.GND Vref В P022 212232423833 Rev-L C254 390P 31 Rev-R 32 R291 33 RIP MSGV(R) 19 R403 MAOUT 18 C404 R01 0R0 34 FIN(L) IC251 MSI Fwd-R MSDET C252 390P HA12216F vcc 36 GND 37 58 78 78 78 78 78 MSOUT Fwd-L R281 0R0 MSGV 14 R273 F/R 13 \$\frac{1}{2}\d 39 RIN(R) NFI(R) DOLBY B NR R255 180 TEST TAPE NCT-150 (400Hz, 200nWb/m) 2 2 2 3 3 3 3 D C272 R1 2 DE 98 CN251 GND (Sig) +B MT Е Lch

F

KEX-M8547ZT/EW

A CN353

-8.24dBs(300mV)-1dB

M1 MOTOR UNIT (MAIN MOTOR) EXA1618 MM CN255 CN256 EGN1004 CN253 RSB В GND 3 RS P022 MTL 额 MCS LOAD 製工器 第十章 ESG1007x3 910 R01 R362 300 **D** SENSOR UNIT 13 RS1 14 SC2 BOSOS A TAB **Me** С CN254 R22 CE 252 18 351 NO SM1 20 NC R374 0R0 5 20 20 20 40 ± | ± | ± | ± | ± | **MECHANISM** 20 PE C354 **DRIVER** Flo<sub>1</sub> C353 D 188355 15 7 ORO C355 R1 LOAD 111 GND (Pwr) 12-POS 13-N. ES SC2 SC1 CM STBY Е SWITCHES: REEL SENSE PCB S101:LOAD SWITCH......EJECT-PLAY S102:MODE SWITCH.....ON-OFF S103:70 s SWITCH......ON-OFF
The underlined indicates the switch position. :N353

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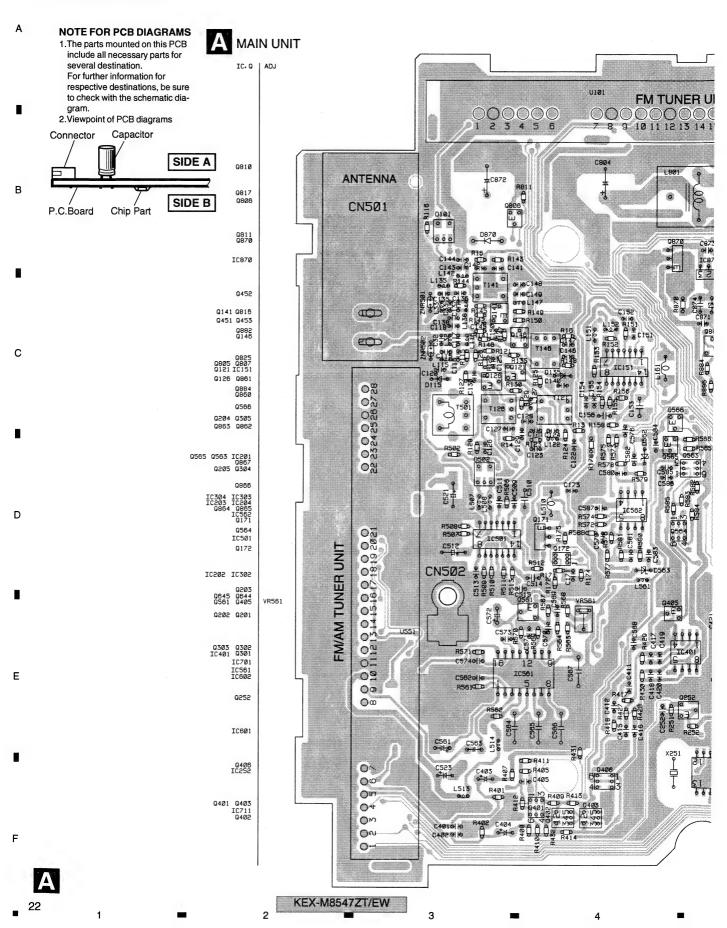
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CD

KEX-M8547ZT/EW



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A MAIN UNIT

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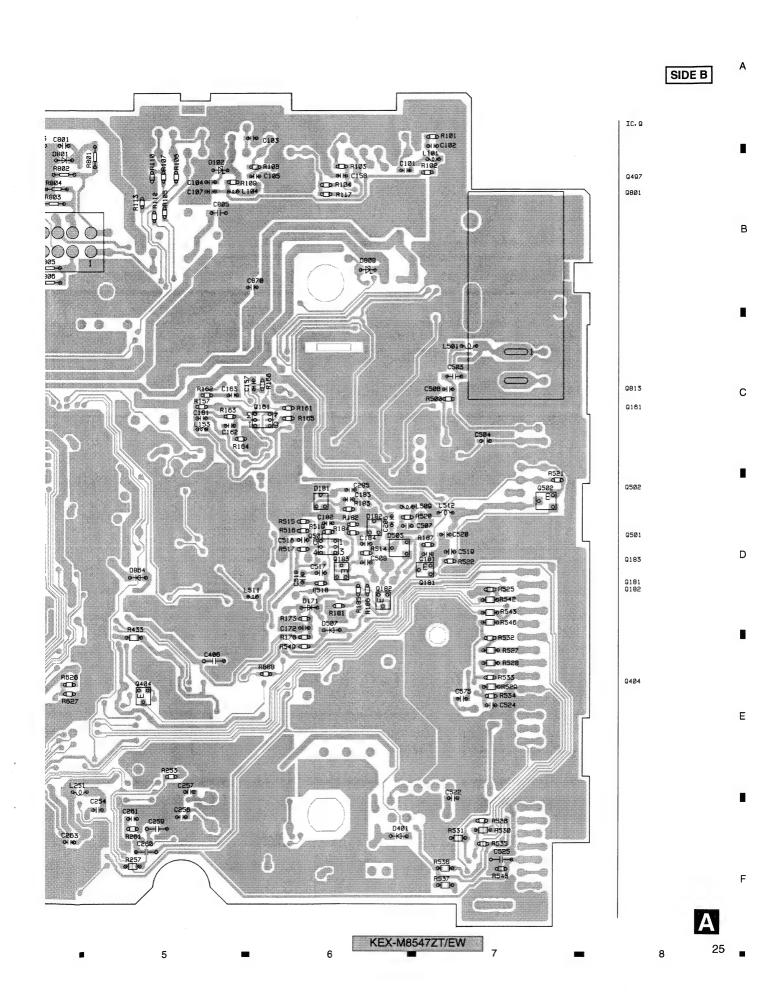
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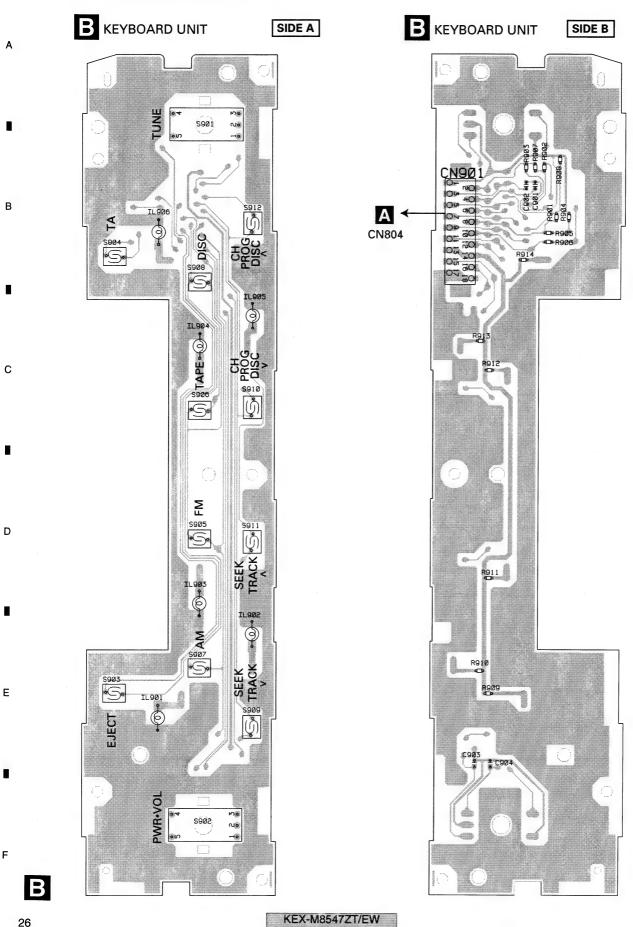
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(0000000000 C245 00000000 9-II-0C248 18/77 00 0 00000000 00 Ox KEX-M8547ZT/EW 3

**A** 



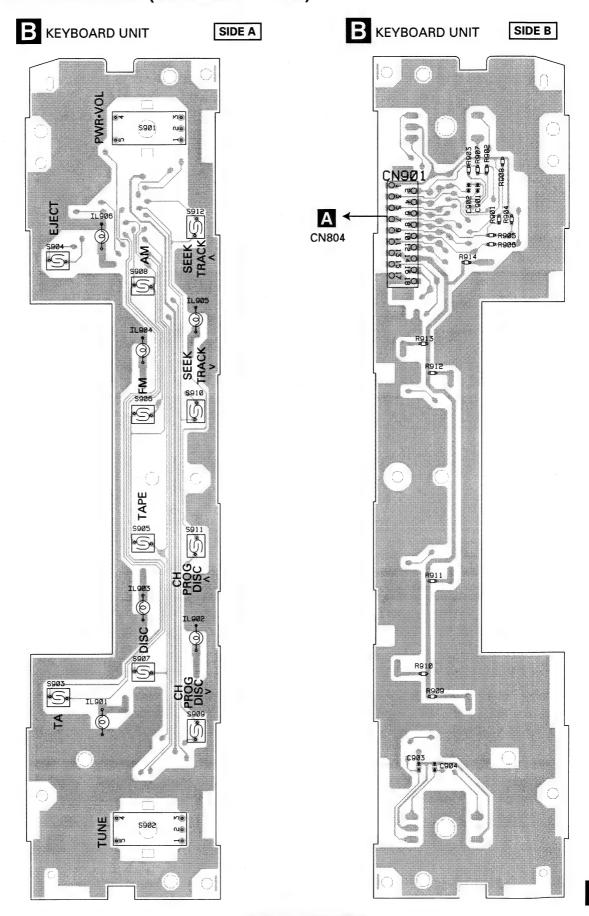
## 4.2 KEYBOARD UNIT(KEX-M8547ZT/EW)



# 4.3 KEYBOARD UNIT(KEX-M8647ZT/EW)

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## 4.4 CASSETTE MECHANISM MODULE

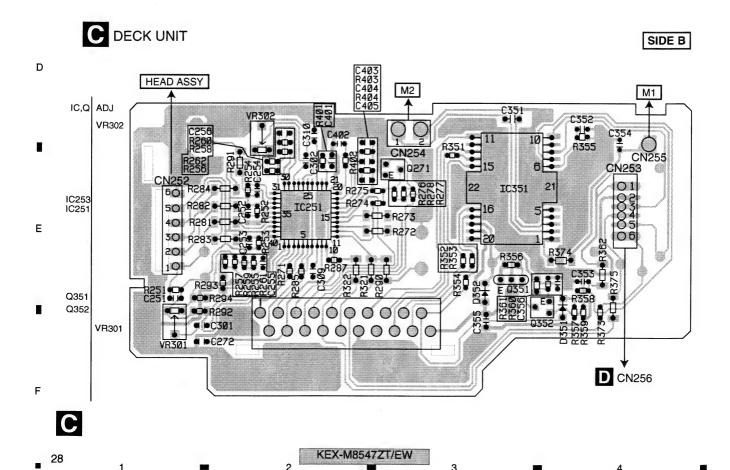
B C DECK UNIT SIDE A

CN353

CN353

CN353

CN353



D SENSOR UNIT

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## 5. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
  - The part numbers shown below indicate chip components.

Chip Resistor

 $RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J, RS1/\bigcirc\bigcirc S\bigcirc\bigcirc\bigcirc J$ 

Chip Capacitor (except for CQS.....)

CKS...., CCS...., CSZS.....

	<u>Ci</u>	rcuit Symbol and No.	Part No.	<u>Cir</u>	cuit Symbol and No.	Part No.
				Q 403	Transistor	FMG13
В				Q 404	Transistor	DTA114EU
ь	A			Q 405	Transistor	DTC143TU
		umberiCWM0554 (	MOE 477T)	Q 406	Transistor	IMH3A
		umber:CWM9554 (I		Q 451	Transistor	2SB1260
	Unit No	umber:CWM9555 (I	M8647ZT)	<u> </u>		202.200
	Unit Na	ame:Main Unit	•	Q 452	Transistor	2SC2712
	O			Q 453	Transistor	2SC2712
	MICCEL	LANEOUS		Q 497	Transistor	DTC114EU
	MISCEL	LANEOUS		Q 501	Transistor	IMX1
	10.454	10	1.4400414	Q 502	Transistor	2SC2712
	IC 151	IC	LA1061M			
	IC 201	IC IC	NJM2068MD	Q 561	Transistor	2SC2712
	IC 202	IC IC	TC4052BF	Q 563	Transistor	IMT2A
С	IC 203	IC	NJM2068MD	Q 564	Transistor	IMH1A
•	IC 204	IC	NJM2068MD	Q 565	Transistor	2SB1689
	IC 252	IC	DM4000A	Q 566	Transistor	DTC114EU
	IC 252	IC	PM4009A TC4052BF			
	IC 302	IC IC	NJM2068MD	Q 644	Transistor	DTC114EU
	IC 303	IC IC		Q 645	Transistor	2SA1162
_	IC 401	IC	NJM2068MD NJM2068MD	Q 801	Transistor	DTC114EU
	10 401	ic	1431412066141D	Q 805	Transistor	DTC144TUA
	IC 501	IC	LA1061M	Q 806	Transistor	DTC144TUA
	IC 561	IC	HA12181FP			
	IC 562	IC	NJM2068MD	Q 807	Transistor	DTC144TUA
	IC 601	IC	PD5945A	Q 810	Transistor	2SB1185
	IC 602	IC	S-80835CNNB-B8U	Q 811	Transistor	2SB1185
D	10 002	10	0-000000NND-200	Q 813	Transistor	2SA1162
	IC 701	IC	HA12187FP	Q 816	Transistor	IMX1
	IC 870	iC	S-812C56AUA-C3K	_		
	Q 121	Transistor	2SC3356	Q 817	Transistor	IMX1
	Q 126	Transistor	2SC3356	Q 825	Transistor	2SA1162
	Q 141	Transistor	2SC3356	Q 860	Transistor	2SA1162
				Q 861	Transistor	DTC143EU
	Q 146	Transistor	2SC3356	Q 862	Transistor	DTC144TUA
	Q 161	Transistor	IMX1	0.000	<b>-</b>	
	Q 171	Transistor	2SB1260	Q 863	Transistor	IMD3A
	Q 172	Transistor	UMX1N	Q 864	Transistor	DTA114EU
	Q 181	Transistor	DTC144EU	Q 865	Transistor	DTA114EU
Е				Q 866 Q 867	Transistor	DTA114EU
_	Q 182	Transistor	2SC4081	Q 667	Transistor	DTA114EU
	Q 183	Transistor	2SA1576	Q 870	Transistor	2SD1767
	Q 201	Transistor	DTC144EU	Q 882	Transistor	
	Q 202	Transistor	DTC144EU	Q 884	Transistor	2SA1162 DTC124EU
	Q 203	Transistor	DTC144EU	D 101	Diode	CPH5512
_				D 101	Diode	HZU3R3(B2)
	Q 204	Transistor	FMG13	D 102	Diode	HZUSHS(BZ)
	Q 205	Transistor	FMG13	D 115	Diode	1SS355
	Q 252	Transistor	2SC3052-12	D 135	Diode	1SS355
	Q 301	Transistor	DTC144EU	D 181	Diode	1SV249
	Q 302	Transistor	DTC144EU	D 182	Diode	1SV249 1SV249
				D 203	Diode	HZU4R7(B2)
F	Q 303	Transistor	DTC144EU	2 200	21000	11207111 (02)
	Q 304	Transistor	FMG13	D 401	Diode	1SS355
	Q 305	Transistor	FMG13	D 452	Diode	1SS355
	Q 401	Transistor	IMX1	D 472	Diode	MPG06G-6415G50
	Q 402	Transistor	FMG13		_,000	0000-0410000
	30		KEX-M85	47ZT/EW		
-		4	2		_	4

		5	6	-		7	8		•
	Circu	<u>iit Symbol and No.</u>	Part No.		Circui	it Symbol and No.	Part No.		
D	473	Diode	MPG06G-6415G50	L	514	Inductor	CTF1473		
D	474	Diode	1SS355	L	561	Inductor	CTF1473		
_		D: 1	100055		004	la di sata a	I CTA 100 1000F		Α
	475	Diode	1SS355			Inductor	LCTA100J3225		А
	497	Diode	UDZS20(B)			Coil 350µH	CTH1276		
	502	Diode	CPH5512			Coil	CTC1187		
	562	Diode	UDZS10(B)			Coil	CTC1187		
D	563	Diode	UDZS10(B)	Т	141	Coil	CTC1187		
D	691	Diode	1SS355	т	146	Coil	CTC1187		
	692	Diode	1SS355			Coil	CTB1102		
	693	Diode	1SS355			Crystal Resonator 3.648MHz			
	703	Diode	UDZS18(B)			Radiator 10.0MHz	CSS1577		
	704	Diode	UDZS18(B)			Semi-fixed 10kΩ(B)	CCP1396		
_		<b>m</b>	100055	<b>5</b> 1.	474	F FA	0514040		
	801	Diode	1SS355	FU		Fuse 5A	CEK1216		В
	802	Diode	UDZS5R6(B)			FM Tuner Unit	CWE1679		
	803	Diode	RM4LFJ10			FM/AM Tuner Unit	CWE1773		
	804	Diode	1SS355		010707				
D	805	Diode	UDZS20(B)	RE	SISTOR	<u>S</u>			
D	808	Diode	HZU8R2(B2)	R	13		RS1/16S100J		
	809	Diode	HZU7R5(B3)	R			RS1/16S100J		
	810	Diode	HZU8R2(B2)	R			RS1/16S100J		
D	815	Diode	1SS355	R			RS1/16S100J		
	816	Diode	HZU7R5(B3)		101		RS1/16S102J		
_	960	Diodo	UZI 10E0/E0\	_			D04/4505		
	860	Diode Diode	HZU8R2(B3) 1SS355		103		RS1/16S681J		
	861				104		RS1/16S153J		С
	862	Diode	1SS355		105		RS1/16S681J		•
	863	Diode	DAP202K		106		RS1/16S681J		
D	864	Diode	1SS355	R	107		RS1/16S681J		
D	870	Diode	MPG06G-6415G50	В	108		RS1/16S681J		
D	871	Diode	UDZS16(B)		109		RS1/16S102J		
D	882	Diode	1SS355		110		RS1/16S473J		
Z	NR501	Surge Protector	RCCA-201Q31UA-PI		112		RS1/16S472J		_
Z	NR502	Surge Protector	RCCA-201Q31UA-PI		113		RS1/16S473J		
			1.63/5.403114666						
	32	Inductor	LCYB12NJ1608		115		RS1/16S331J		
	33	Inductor	LCYB12NJ1608		117		RS1/16S681J		
	101	Inductor	CTF1409		121		RS1/16S100J		D
	104	Inductor	CTF1473	R	122		RS1/16S222J		
L	115	Inductor	LCYBR12J1608	R	123		RS1/16S121J		
L	116	Inductor	LCYBR12J1608	В	124		RS1/16S220J		
	122	Inductor	LCYBR10J1608		125		RS1/16S100J		
	127	Inductor	LCYBR10J1608		126		RS1/16S100J		
	135	Inductor	LCYBR12J1608		127		RS1/16S222J		
	136	Inductor	LCYBR12J1608		128		RS1/16S121J		
	4.46	Land order	LOVDD40 HCCC						
	142	Inductor	LCYBR10J1608		129		RS1/16S220J		
	147	Inductor	LCYBR10J1608		130		RS1/16S100J		
	151	Inductor	CTF1409		135		RS1/16S331J		
	152	Inductor	CTF1409		141		RS1/16S100J		Ε
L	153	Inductor	CTF1473	R	142		RS1/16S222J		
L	161	Inductor	LCTA561J4532	R	143		RS1/16S121J		
	251	Inductor	LCTA101J2520		144		RS1/16S220J		
L	363	Inductor	LFEA4R7J		145		RS1/16S100J		
L	491	Inductor	CTF1578		146		RS1/16S100J		
	492	Inductor	CTF1578		147		RS1/16S222J		
	501	Inductor	LCTA4R7J2520		148		RS1/16S121J		
	507	Inductor	CTF1409		149		RS1/16S220J		
	508	Inductor	CTF1409		150		RS1/16S100J		
	509	Inductor	CTF1409		151		RS1/16S104J		
L	510	Inductor	LCTA561J4532	R	152		RS1/16S103J		F
L	511	Inductor	CTF1473	R	153		RS1/16S103J		
	512	Inductor	LCTA1R0J2520		154		RS1/16S334J		
L	513	Inductor	CTF1473						
				KEX-M8547Z	T/EW	<u>L</u>		31	
		5	6			7	8	31	

	1		2		3		4
		Symbol and No.	Part No.		Circuit Symbo	ol and No.	Part No.
	R 155		RS1/16S101J	R 2	241		RS1/16S222J
	R 156		RS1/16S101J	R 2			RS1/10S103J
	R 157		RS1/16S104J	R 2	244		RS1/10S103J
Α	D 450		D01/1001041	ъ.	245		D04/4004001
	R 158 R 161		RS1/16S104J RS1/16S683J	R 2 R 2			RS1/10S103J
	R 162		RS1/16S224J	R 2			RS1/10S103J RS1/16S223J
	R 163		RS1/16S473J	R 2			RS1/16S223J
	R 164		RS1/16S473J	R 2			RS1/16S223J
_							1101/10022200
ı	R 165		RS1/16S182J	R 2	250		RS1/16S223J
	R 166		RS1/16S103J	R 2	251		RS1/16S153J
	R 171		RS1/16S152J	R 2			RS1/16S474J
	R 172		RS1/16S822J	R 2			RS1/16S681J
	R 174		RS1/16S472J	R 2	254		RS1/16S0R0J
В	D 400		201/1000001				
Ь	R 175		RS1/16S223J	R 2			RS1/16S102J
	R 176		RS1/16S103J	R 2			RS1/16S225J
	R 178 R 181		RS1/10S2R2J RS1/16S102J	R 2 R 2			RS1/16S104J
	R 182		RS1/16S223J	R S			RS1/16S104J RS1/16S163J
	11 102		1101/1002200	11 3	,13		N3 1/103 1033
_	R 183		RS1/16S102J	R 3	314		RS1/16S163J
	R 184		RS1/16S102J	RS			RS1/16S163J
	R 185		RS1/16S472J	RS			RS1/16S163J
	R 186		RS1/16S101J	R 3	317		RS1/16S163J
	R 187		RS1/16S223J	R 3	318		RS1/16S163J
С	R 201		RS1/16S223J	R 3			RS1/16S163J
C	R 202		RS1/16S223J	R 3			RS1/16S163J
	R 203		RS1/16S223J	RS			RS1/16S103J
	R 204		RS1/16S223J	RS			RS1/16S103J
	R 205		RS1/16S223J	RS	323		RS1/16S103J
	R 206		RS1/16S223J	R 3	324		RS1/16S103J
	R 207		RS1/16S223J	R 3			RS1/16S181J
-	R 208		RS1/16S223J	R 3			RS1/16S181J
	R 211		RS1/16S101J	R 3	327		RS1/16S181J
	R 212		RS1/16S101J	R 3	328		RS1/16S181J
	R 213		RS1/16S163J	RS			RS1/10S470J
D	R 214		RS1/16S163J	RS			RS1/10S470J
	R 215 R 216		RS1/16S163J RS1/16S163J	R 3 R 3			RS1/10S470J RS1/10S470J
	R 217		RS1/16S163J	R 3			RS1/16S473J
	11 217		1101/1001000	" "	<b>5</b> 5		1131/1034/30
	R 218		RS1/16S163J	R 3	334		RS1/16S473J
	R 219		RS1/16S163J	R 3			RS1/16S473J
	R 220		RS1/16S163J	R 3	337		RS1/16S473J
	R 221		RS1/16S103J	R 3			RS1/16S473J
	R 222		RS1/16S103J	R 3	339		RS1/16S473J
	D 202		D01/4004004		240		DO4/400 (TC )
	R 223 R 224		RS1/16S103J RS1/16S103J	R 3 R 3			RS1/16S473J
	R 225		RS1/16S183J	R 4			RS1/16S100J
Ε	R 226		RS1/16S181J	R 4			RS1/16S432J RS1/16S432J
	R 227		RS1/16S181J	R 4			RS1/16S224J
							1101111002210
	R 228		RS1/16S181J	R 4	107		RS1/16S102J
	R 229		RS1/10S470J	R 4	108		RS1/16S102J
_	R 230		RS1/10S470J	R 4	109		RS1/16S222J
	R 231		RS1/10S470J	R 4			RS1/16S222J
	R 232		RS1/10S470J	R 4	i11		RS1/16S224J
	B 222		D04/4004701		140		D04/40055 : :
	R 233 R 234		RS1/16S473J	R 4			RS1/16S224J
	R 235		RS1/16S473J RS1/16S473J	R 4			RS1/16S102J
_	R 237		RS1/16S473J	R 4			RS1/16S102J RS1/16S753J
F	R 238		RS1/16S473J	R 4			RS1/16S753J
							.101/100/000
	R 239		RS1/16S473J	R 4	27		RS1/16S123J
	R 240		RS1/16S473J	R 4			RS1/16S123J
	32		KE	EX-M8547ZT/EW			
	1		2	-	3		4

Circuit Symbol and No	6 Part No	Circu	7 uit Symbol and No.	8 <u>Part No.</u>	
Circuit Symbol and No.	Part No. RS1/16S823J	R 566	ait Symbol and No.	RS1/16S222J	
430	RS1/16S823J	R 567		RS1/16S822J	
431	RS1/16S473J	R 568		RS1/16S222J	
400	DC4/4004701	D 500		DC1/1001641	
432 433	RS1/16S473J RS1/16S101J	R 569 R 570		RS1/16S164J RS1/16S223J	
451	RS1/16S102J	R 571		RS1/16S473J	
452	RS1/16S223J	R 572		RS1/16S472J	
453	RS1/16S823J	R 573		RS1/16S332J	
454	RS1/16S181J	R 574		RS1/16S332J	
455	RS1/16S181J	R 575		RS1/16S332J	
456	RS1/16S181J	R 576		RS1/16S683J	
457 458	RS1/16S181J RS1/16S181J	R 577 R 578		RS1/16S332J RS1/16S683J	
400	1101/1001010	11 5/6		110 1/1000000	
459	RS1/16S223J	R 579		RS1/16S221J	
460	RS1/16S223J	R 580		RS1/16S221J	
497 498	RS1/4S121J RS1/4S121J	R 581 R 582		RS1/16S683J RS1/16S332J	
500	RS1/16S471J	R 583		RS1/16S332J	
500	D04#66:5::	B ===		D04/400000	
506 507	RS1/16S104J RS1/16S103J	R 584 R 585		RS1/16S332J RS1/16S332J	
508	RS1/16S103J	R 588		RS1/16S562J	
509	RS1/16S334J	R 603		RS1/16S102J	
510	RS1/16S101J	R 604		RS1/16S681J	
511	RS1/16S101J	R 605		RS1/16S102J	
512	RS1/16S104J	R 606		RS1/16S0R0J	
513	RS1/16S104J	R 607		RS1/16S104J	
514 515	RS1/16S103J RS1/16S182J	R 608 R 609		RS1/16S102J RS1/16S681J	
	110111001020				
516	RS1/16S683J	R 610		RS1/16S0R0J	
517 518	RS1/16S224J RS1/16S473J	R 611 R 612		RS1/16S0R0J RS1/16S102J	
519	RS1/16S473J	R 616		RS1/16S473J	
520	RS1/16S102J	R 620		RS1/16S0R0J	
522	RS1/16S222J	R 621		RS1/16S681J	
525	RS1/16S473J	R 622		RS1/16S0R0J	
526	RS1/16S681J	R 624		RS1/16S0R0J	
527	RS1/16S681J	R 625	(1.105.4777)	RS1/16S681J	
528	RS1/16S681J	R 626	(M8547ZT)	RS1/16S473J	
529	RS1/16S103J	R 627	(M8647ZT)	RS1/16S473J	
530	RS1/16S681J	R 629		RS1/16S472J	
531 532	RS1/16S473J RS1/16S473J	R 631 R 632		RS1/16S0R0J RS1/16S102J	
533	RS1/16S473J	R 633		RS1/16S102J	
	D04#465555				
534 535	RS1/16S393J RS1/16S473J	R 634 R 635		RS1/16S102J RS1/16S471J	
536	RS1/16S4/3J	R 637		RS1/16S471J RS1/16S102J	
537	RS1/16S473J	R 638		RS1/16S102J	
538	RS1/16S681J	R 641		RS1/16S473J	
539	RS1/16S681J	R 642		RS1/16S104J	
541	RS1/16S681J	R 643		RS1/16S104J	
542	RS1/16S681J	R 644		RS1/16S473J	
543	RS1/16S681J	R 645		RS1/16S102J	
544	RS1/16S681J	R 646		RS1/16S103J	
545	RS1/16S473J	R 647		RS1/16S102J	
546	RS1/16S103J	R 648		RS1/16S102J	
561 562	RS1/16S104J RS1/16S123J	R 654 R 655		RS1/16S102J RS1/16S102J	
563	RS1/16S105J	R 656		RS1/16S102J	
	D01/400500 !	D 057			
564 565	RS1/16S562J RS1/16S223J	R 657 R 658		RS1/16S102J RS1/16S223J	
		KEX-M8547ZT/EW			
5 -	6	TUT HOOTIZITEI	7 -	8	33

		1 -	2	_		3	_	4	
-	Cina	_		_	_		and Na	4 Down No.	•
		uit Symbol and No.	Part No.			ircuit Symbol	and No.	Part No.	
	R 659		RS1/16S102J		R 840			RS1/4S1R5J	
	R 660		RS1/16S102J		R 841			RS1/4S1R5J	
	R 661		RS1/16S102J		R 844			RS1/16S471J	
Α	D 660		DC1/10C1001		D 040			DC1/100105 I	
	R 662 R 663		RS1/16S102J		R 846 R 847			RS1/16S105J	
	R 664		RS1/16S102J RS1/16S102J		R 848			RS1/10S361J RS1/16S272J	
	R 665		RS1/16S102J		R 849			RS1/16S392J	
	R 666		RS1/16S681J		R 856			RS1/16S103J	
	000		1101/1000010		11 000			1101/1001000	
	R 667		RS1/16S473J		R 857			RS1/16S103J	
	R 668		RS1/16S473J		R 860			RS1/16S223J	
	R 669		RS1/16S473J		R 861			RS1/16S103J	
	R 670		RS1/16S473J		R 862			RS1/16S104J	
	R 671		RS1/16S473J		R 863			RS1/16S223J	
В									
В	R 672		RS1/16S473J		R 865			RS1/16S103J	
	R 673		RS1/16S473J		R 867			RS1/16S472J	
	R 674		RS1/16S473J		R 868			RS1/16S102J	
	R 675 R 676		RS1/16S473J		R 869 R 870			RS1/16S102J RS1/10S102J	
	n 6/6		RS1/16S102J		n 0/0			NS 1/10S 102J	
_	R 677		RS1/16S102J		R 871			RS1/16S472J	
	R 678		RS1/16S102J		R 882			RD1/4PU121J	
	R 679		RS1/16S102J		R 884			RS1/16S223J	
	R 680		RS1/16S102J		R 886			RS1/16S472J	
	R 681		RS1/16S102J		R 888			RS1/16S473J	
_	R 682		RS1/16S102J		CAPAC	CITORS			
С	R 683		RS1/16S102J						
	R 684		RS1/16S102J		C 32			CCSRCH100D50	
	R 685		RS1/16S102J		C 33			CCSRCH100D50	
	R 687		RS1/16S473J		C 101			CKSRYB102K50	
	B 600		DC4/4004701		C 102			CKSRYB472K50	
_	R 690 R 691		RS1/16S473J RS1/16S473J		C 103			CKSRYB102K50	
	R 692		RS1/16S473J		0.404			01/07/77/04/04	
	R 693		RS1/16S473J		C 104			CKSRYB104K25	
	R 698		RS1/16S102J		C 105 C 107			CKSRYB102K50	
	555		1101/1001020		C 107			CKSRYB105K10 CCSRCH270J50	
	R 699		RS1/16S473J		C 116			CCSRCH150J50	
_	R 701		RS1/16S473J		0 110			00011011100000	
D	R 703		RS1/4S101J		C 117			CCSRCH100D50	
	R 704		RS1/4S101J		C 118			CCSRCK2R0C50	
	R 705		RS1PMF680J		C 120			CKSRYB103K50	
					C 121			CKSRYB222K50	
	R 711		RS1/16S473J		C 122			CKSRYB472K50	
_	R 751	(M8647ZT)	RS1/16S822J		_				
	R 801		RS1/8S222J		C 123			CCSRCH120J50	
	R 802 R 803		RS1/8S472J RS1/8S472J		C 124			CKSRYB102K50	
	11 000		110 1/004/2J		C 126			CKSRYB222K50	
	R 804		RS1/8S472J		C 127 C 128			CKSRYB472K50	
	R 805		RS1/8S472J		U 128			CCSRCH120J50	
_	R 806		RS1/8S472J		C 129			CKSRYB102K50	
Ε	R 807		RS1/4S121J		C 125			CCSRCH270J50	
	R 808		RS1/4S121J		C 136			CCSRCH150J50	
					C 137			CCSRCH100D50	
	R 810		RS1/16S104J		C 138			CCSRCK2R0C50	
	R 811		RS1/16S104J						
-	R 812		RS1/16S104J		C 140			CKSRYB103K50	
	R 820		RS1/16S123J		C 141			CKSRYB222K50	
	R 821		RS1/16S103J		C 142			CKSRYB472K50	
	R 822		D01/160100 I		C 143			CCSRCH120J50	
	R 822 R 834		RS1/16S103J RS1/16S223J		C 144			CKSRYB102K50	
	R 835		RS1/16S223J		0.440			OKOD (Door: 1	
_	R 836		RS1/16S331J		C 146			CKSRYB222K50	
F	R 837		RS1/16S681J		C 147			CKSRYB472K50	
					C 148 C 149			CCSRCH120J50 CKSRYB102K50	
	R 838		RS1/16S471J		C 149			CKSRYB472K50	
	R 839		RS1/16S151J		0 131			UCAL 11 D47 2NOU	
	24			EX-M8547ZT	/FW				
•	34	1 =	2			3	-	4	-
								-	

	•	5	6	•	7	8	•
	Circ	cuit Symbol and No	. Part No.	Circu	iit Symbol and No.	Part No.	
	C 152 C 153 C 154 C 155		CKSRYB103K50 CKSYB106K6R3 CKSRYB105K10 CKSRYB102K50	C 261 C 262 C 263 C 281		CCSRCH471J50 CEJQ4R7M35 CKSRYB473K50 CKSRYB182K50	Α
	C 156 C 157		CKSQYB225K10 CKSRYB103K50	C 282 C 283		CKSRYB182K50 CKSRYB182K50	
	C 157 C 158 C 161		CKSRYB102K50 CKSRYB392K50	C 284 C 285		CKSRYB182K50 CCSRCH391J50	
	C 162 C 163		CKSRYB103K50 CKSRYB103K50	C 286 C 309		CCSRCH391J50 CKSRYB102K50	_
,	C 171 C 172		CKSRYB104K16 CKSRYB103K50	C 310 C 319		CKSRYB105K10 CCSRCH220J50	
	C 173 C 181 C 182		CKSRYB103K50 CKSRYB105K10 CKSRYB103K50	C 320 C 321 C 322		CCSRCH220J50 CCSRCH220J50 CCSRCH220J50	В
	C 183		CKSRYB222K50	C 323	4.7μF/35V	CCH1432	
	C 184 C 201		CKSRYB222K50 CEJQNP4R7M16	C 324 C 325	4.7μF/35V 4.7μF/35V	CCH1432 CCH1432	
	C 202		CEJQNP4R7M16	C 326	4.7μF/35V	CCH1432	
	C 203		CEJQNP4R7M16 CEJQNP4R7M16	C 327		CCSRCH221J50 CCSRCH221J50	_
	C 204 C 205		CCSRCH330J50	C 328 C 329		CCSRCH221J50	
	C 206		CCSRCH330J50	C 330		CCSRCH221J50	
	C 207 C 208		CCSRCH330J50 CCSRCH330J50	C 335 C 336	4.7μF/35V 4.7μF/35V	CCH1432 CCH1432	С
	C 209		CKSRYB102K50	C 337	4.7μF/35V	CCH1432	
	C 210 C 215		CKSRYB105K10 CEJQNP4R7M16	C 338 C 351	4.7μF/35V	CCH1432 CEJQ4R7M35	
	C 216		CEJQNP4R7M16	C 355		CEJQ220M10	
	C 219		CCSRCH220J50	C 356		CEJQ100M16	•
	C 220 C 221		CCSRCH220J50 CCSRCH220J50	C 381 C 382		CKSRYB182K50 CKSRYB182K50	
	C 221		CCSRCH220J50	C 383		CKSRYB182K50	
	C 223	4.7μF/35V	CCH1432	C 384		CKSRYB182K50	
	C 224	4.7μF/35V	CCH1432	C 401		CKSRYB123K50	D
	C 225	4.7μF/35V	CCH1432	C 402		CKSRYB123K50	
	C 226	4.7μF/35V	CCH1432 CCSRCH221J50	C 403 C 404	4.7μF/35V 4.7μF/35V	CCH1432 CCH1432	
	C 227 C 228		CCSRCH221J50 CCSRCH221J50	C 404 C 405	4./μΓ/35ν	CKSRYB153K50	
	C 229		CCSRCH221J50	C 406		CKSRYB102K50	
	C 230		CCSRCH221J50	C 411		CKSRYB104K16	
	C 231 C 232		CKSRYB473K50 CEJQ101M6R3	C 412 C 415		CKSRYB104K16 CKSRYB105K10	
	C 233		CKSRYB102K50	C 416		CKSRYB105K10	
	C 235	4.7μF/35V	CCH1432	C 417		CCSRCH391J50	_
	C 236	4.7μF/35V	CCH1432	C 418		CCSRCH391J50	Ε
	C 237	4.7μF/35V	CCH1432	C 421		CEJQ470M6R3	
	C 238 C 243	4.7μF/35V	CCH1432 CKSQYB102K50	C 451 C 480		CKSRYB222K50 CKSQYB102K50	
	C 244		CKSQYB102K50	C 493		CCSQCH181J50	
	C 245		CKSQYB102K50	C 494		CCSQCH181J50	
	C 246 C 251		CKSQYB102K50 CKSRYB104K16	C 495 C 496		CKSQYB102K50 CKSQYB102K50	
	C 252		CKSRYB472K50	C 497		CCSRCH221J50	
	C 253		CEJQ220M6R3	C 503		CKSQYB103K50	
	C 254 C 256		CKSRYB104K16 CCSRCH270J50	C 504 C 506		CKSRYB102K50 CCSRCH100D50	F
	C 256		CCSRCH270J50	C 507		CKSRYB472K50	
	C 259		CKSRYB104K16	C 508		CKSRYB103K50	
	C 260		CCSRCH471J50	C 509		CKSRYB103K50	
		5	6 K	EX-M8547ZT/EW	7 -	8	35

5 • KEX-M8547ZT/EW 7 8 35

-	_		_	_		
•	1 Circuit Symbol and No.	2 Part No.	- Ci	3 <b>■</b> rcuit Symbol and No.	4 <u>Part No.</u>	<b>.</b>
	Oncult Symbol and No.	rait ito.	<u> </u>	icuit Symbol and No.	rait No.	
	C 510	CKSYB106K6R3	C 701		CKSRYB103K50	
	C 511	CKSRYB472K50	C 703		CCSRCH221J50	
١.	C 512	CEV100M16	C 704		CCSRCH221J50	
	C 513	CKSRYB102K50	C 801		CKSRYB102K50	
	C 514	CKSQYB225K10	C 802		CEJQ1R0M50	
	C 515	CKSRYB102K50	C 803		CKSRYB102K50	
	C 516	CKSRYB103K50	C 804	2200µF/16V	CCH1405(P35)	
ı	C 517	CKSRYB103K50	C 805		CKSQYB473K50	•
	C 518	CKSRYB392K50	C 806		CKSRYB102K50	
	C 519	CKSRYB103K50	C 807		CEJQ1R0M50	
	C 520	CKSRYB103K50	C 808		CKSRYB102K50	•
	C 521	CEV101M10	C 814		CEJQ1R0M50	
	C 522	CKSRYB103K50	C 815		CEJQ1R0M50	
1	C 523	CEJQ100M16	C 821		CKSRYB103K50	
	C 524	CKSRYB472K50	C 822	100μF/10V	CCH1402	
	C 525	CKSRYB102K50	C 823		CKSRYB103K50	
	C 525 C 561	CEJQ3R3M50	C 823			
	C 562			100uE/10V	CKSRYB472K50	
		CKSRYB333K16	C 825	100μF/10V	CCH1402	
	C 563	CEJQNP1R0M50	C 829		CKSRYB103K50	
	C 564	CQMA683J50	C 861		CEJQ101M6R3	
	C 565	CQMA333J50	C 866		CEJQ100M16	
	C 566	CQMA333J50	C 867		CEJQ100M16	
	C 567	CQMA333J50	C 870		CKSRYB103K50	
	C 568	CKSRYB105K10	C 871		CKSRYB103K50	
	C 569	CKSRYB333K16	C 872	2200μF/16V	CCH1405(P35)	
	C 570	CKSRYB123K50	C 873		CKSRYB105K10	
	C 571	CKSRYB682K50	C 883		CKSRYB103K10	
	C 571	CEJQ101M10	0 003		OKON1 B 100K00	
	C 572 C 573	CKSRYB392K50				
	C 573		В			
	C 5/4	CKSRYB334K10			OE 477T\	
	C 575	CKCDABTUOREU		umber:CWS1338(M	•	
	C 575 C 576	CKSRYB102K50	Unit N	umber:CWS1339(M	8647ZT)	
	C 576 C 579	CCSRCH151J50		ame:Keyboard Unit		
	C 579	CCSRCH470J50 CCSRCH470J50	Ollit IV	ame.Reyboard offic		
	C 580	CCSRCH470J50 CCSRCH470J50	MISCEL	LANEOUS		
				-mr-111E-0-00		
	C 582	CKSRYB473K50	S 901	Encoder(M8547ZT)	CSD1083	
	C 583	CKSRYB473K50	S 901	Encoder(M8647ZT)	CSD1080	
	C 584	CKSRYB473K50	S 902	Encoder(M8547ZT)	CSD1080	
	C 585	CKSRYB223K50	S 902	Encoder(M8647ZT)	CSD1083	
	C 586	CKSRYB223K50	IL 901	Lamp 8V 85mA	CEL1748	
	C 587	CKSRYB104K16	IL 902	Lamp 8V 85mA	CEL1748	
	C 601	CKSRYB102K50	IL 903	Lamp 8V 85mA	CEL1748	
	C 602	CKSRYB103K50	IL 904	Lamp 8V 85mA	CEL1748	
	C 603	CKSRYB103K50	IL 905	Lamp 8V 85mA	CEL1748 CEL1748	
	C 604	CKSRYB104K16	IL 905	Lamp 8V 85mA Lamp 8V 85mA	CEL1748 CEL1748	
	C 605	CEJQ220M6R3		·		
	C 645	CKSRYB103K50	RESIST	UH2		
	C 648	CKSRYB102K50				
	C 671	CCSRCH101J50	R 901	(M8647ZT)	RS1/16S0R0J	
	C 672	CCSRCH101J50	R 902	(M8647ZT)	RS1/16S0R0J	9
	0 0/2	003001101300	R 903	(M8647ZT)	RS1/16S0R0J	
	C 673	CCCDCU101 IFO	R 904	(M8647ZT)	RS1/16S0R0J	
	- J/J	CCSRCH101J50	R 905	(M8547ZT)	RS1/16S0R0J	
		CCSRCH101J50		·		
	C 674	CCCDCI 1404 IFA	R 906	(M8547ZT)	RS1/16S0R0J	
	C 674 C 675	CCSRCH101J50	11 300		RS1/16S0R0J	
	C 674 C 675 C 691	CKSRYB102K50	R 907			
	C 674 C 675			(M8547ZT)	RS1/16S0R0J	
	C 674 C 675 C 691 C 692	CKSRYB102K50 CKSRYB102K50	R 907 R 908 R 909	(M8547ZT)	RS1/16S0R0J RS1/16S3R3J	
	C 674 C 675 C 691	CKSRYB102K50 CKSRYB102K50 CKSRYB102K50	R 907 R 908	(M8547ZT)	RS1/16S0R0J	
	C 674 C 675 C 691 C 692 C 693 C 694	CKSRYB102K50 CKSRYB102K50 CKSRYB102K50 CKSRYB102K50	R 907 R 908 R 909 R 910	(M8547ZT)	RS1/16S0R0J RS1/16S3R3J RS1/16S5R6J	
	C 674 C 675 C 691 C 692 C 693 C 694 C 695	CKSRYB102K50 CKSRYB102K50 CKSRYB102K50 CKSRYB102K50 CKSRYB102K50	R 907 R 908 R 909 R 910	(M8547ZT)	RS1/16S0R0J RS1/16S3R3J RS1/16S5R6J RS1/16S3R3J	
	C 674 C 675 C 691 C 692 C 693 C 694	CKSRYB102K50 CKSRYB102K50 CKSRYB102K50 CKSRYB102K50	R 907 R 908 R 909 R 910	(M8547ZT)	RS1/16S0R0J RS1/16S3R3J RS1/16S5R6J	
3	C 674 C 675 C 691 C 692 C 693 C 694 C 695 C 696	CKSRYB102K50 CKSRYB102K50 CKSRYB102K50 CKSRYB102K50 CKSRYB102K50 CKSRYB102K50 CKSRYB102K50 CKSRYB102K50	R 907 R 908 R 909 R 910	(M8547ZT) 3 ■	RS1/16S0R0J RS1/16S3R3J RS1/16S5R6J RS1/16S3R3J	

•		5	-	6	-		7		8	
	Circu	iit Symbo	l and No.	Part No.		Cir	cuit Symbo	ol and No.	Part No.	
	913 914			RS1/16S5R6J RS1/16S3R3J		CAPACIT	<u>rors</u>			
				1101/1000/100		C 251			CKSRYB391K50	
0	7					C 252			CKSRYB391K50	Α
						C 253			CKSRYB391K50	
Ur	nit Nun	nber:EW	/M1031			C 254			CKSRYB391K50	
Ur	nit Nam	ne:Deck	Unit			C 255			CKSRYB103K50	
•		.0120011	• • • • • • • • • • • • • • • • • • • •	•		C 256			CKSRYB103K50	
<u>MI</u> :	SCELLA	NEOUS				C 271	1μF/50V		ECH0002	
						C 272			CKSRYB104K25	
	251	IC		HA12216F		C 301			CKSRYB104K25	
	351	IC		PA2020B		C 302			CKSRYB104K25	
	271	Transistor		2SC4116						
	352	Diode	nal-o/D)	1SS355		C 309			CKSRYB104K25	
VF	R301	Semi-fixed 3	33K22(D)	CCP1280		C 310			CKSRYB104K25	В
VE	302	Semi-fixed 3	OSPO(B)	CCP1280		C 351			CKSQYB224K16	_
٧r	1302	Serii-lixed S	33K22(D)	CCF 1200		C 352			CKSRYB392K50	
RF	SISTOR	RS				C 353			CKSRYB103K50	
		<del></del>				C 354			CKSRYB103K50	
R	255			RS1/16S181J		C 355			CKSQYB104K50	
	256			RS1/16S181J		C 356			CKSRYB103K50	
R	257			RS1/16S183J		C 401			CKSRYB392K50	-
R	258			RS1/16S183J		C 402			CKSRYB334K10	
R	259			RS1/16S133J						
						C 403			CKSRYB223K25	
	260			RS1/16S133J		C 404			CKSRYB103K50	
	261			RS1/16S274J		C 405			CKSRYB333K16	С
	262			RS1/16S274J						Ū
	271			RS1/16S183J		D				
н	272			RS1/8S0R0J			ımber:EV	VN110/11		
В	273			RS1/8S0R0J						
	274			RS1/16S0R0J		Unit Na	ame:Sens	or Unit		
	275			RS1/16S473J						
	276			RS1/16S104J		MISCEL	<b>LANEOUS</b>			_
	277			RS1/16S224J						
						L 101	Inductor		CTF1546	
R	278			RS1/16S104J		L 102	Inductor		CTF1546	
R	281			RS1/8S0R0J		S 101	Switch(LOA		ESG1007	
	282			RS1/8S0R0J		S 102	Switch(MOI	•	ESG1007	D
	283			RS1/8S0R0J		S 103	Switch(70µ	S)	ESG1007	5
R	284			RS1/8S0R0J		0.101	Dhoto roflor	ator	EGN1004	
В	285			RS1/16S0R0J		Q 101	Photo-reflec	CIOI	EGIN 1004	
	287			RS1/16S0R0J		Miscall	laneous F	Parte I iet		
	291			RS1/8S0R0J		MIIOCEII	aneous r	ui to List		
	292			RS1/10S0R0J		M 1	Motor Unit(	MAINI	EXA1618	
	293			RS1/10S0R0J		M 2	Motor Unit(		EXA1660	
						HD1	Head Assy	200,	EXA1594	
	294			RS1/10S0R0J					_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	321			RS1/8S0R0J						
	322			RS1/8S0R0J						
	351			RS1/16S102J						Ε
R	352			RS1/16S102J						
В	353			RS1/16S102J						
	354			RS1/16S102J						
	355			RS1/16S274J						
	362			RS1/8S301J						
	373			RS1/16S0R0J						
Б	274			BS1/8SABAT						
	374			RS1/8S0R0J RS1/8S0R0J						
	375 401			RS1/16S153J						
	401			RS1/16S332J						
	402			RS1/16S911J						F
										Г
R	404			RS1/16S274J						

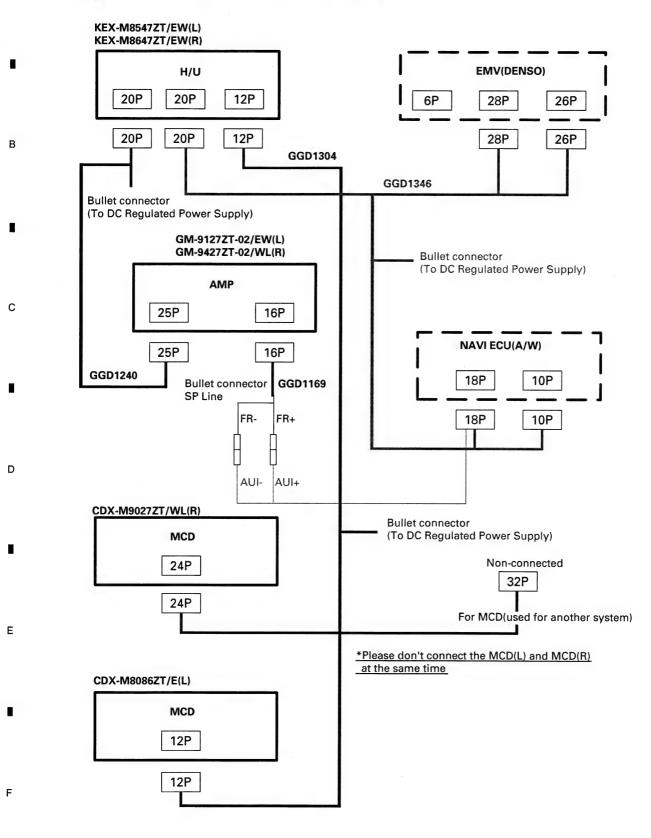
KEX-M8547ZT/EW 6 5

# **6. ADJUSTMENT**

# **6.1 JIG CONNECTION DIAGRAM**

Connection Diagram TOYOTA EMV SYSTEM MODEL

2



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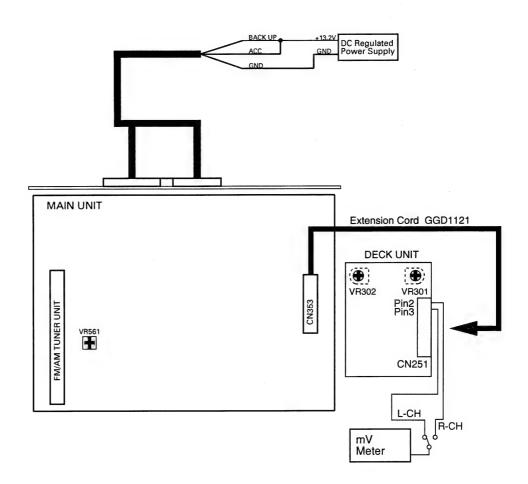
KEX-M8547ZT/EW

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# 6.2 CASSETTE AND AUDIO ADJUSTMENT





#### **DOLBY B NR ADJUSTMENT**

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		I BINITIDOCCINE		
1	No.	Test Tape	Adjustment Point	Adjustment Method
				(Switch Position)
F	1	NCT-150	VR301(Lch), VR302(Rch)	mV Meter : - 8.24dBm ±1dB
		(400Hz, 200nwb/m)		(DOLBY NR Switch : OFF)

KEX-M8547ZT/EW 7 8

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В

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Connection:



Setting of the pulse generator. (setting of superimposed pulse)

В

Pulse width :50μsec
Pulse intervals :5msec

Pulse voltage :4Vp-p

5ms Adjustment:

1. Setting of SSG

Receiving frequency : 999 kHz
Percentage modulation : 30%
Modulation frequency : 400 Hz

Antenna input

: 74 dBµV (EMF)

- 2. Tune a RADIO to the "999kHz" with 1 condition.
- 3. .Mix signal with the above-mentioned pulse and SSG moduration OFF.
- 4. Variable resistance adjust noise level to a minimum.

Adjustment point: VR561

D

С

Е

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F

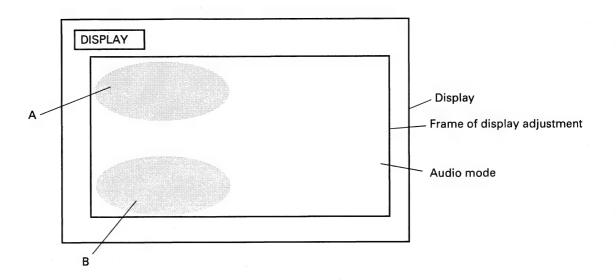
В

С

D

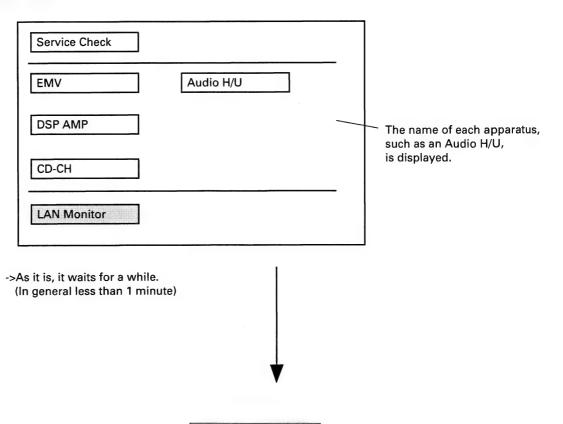
Ε

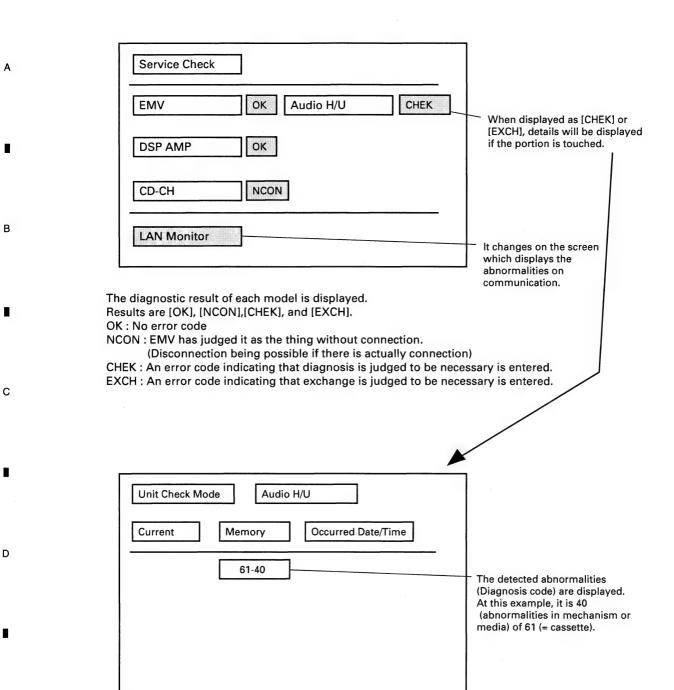
#### 1.To Service Check



- 1. Press [AUDIO] key of EMV.
- 2. Press [DISPLAY] key of EMV .
- 3. The position of A and B is order of pushed 6 times in A,B,A,B,A and B. ->Service Check screen is displayed.

# 2.Service Check





2

3. How to exit from the diagnostic test mode

ACC-OFF

1

12

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KEX-M8547ZT/EW

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Back light abnormal (with no current)
Back light abnormal (with excessive current)
Panel openclose methanical operation abnormal
Front seat monitor abnormal

Panel SW abnormal

Touch SW failure Heater abnormal

2 4 2 3 H

SW, Audio SW, SW shifting, Command SW

PLL Unlock CODEC Communication Error SSDEC Communication Error SSDEC No Response Error

> 12 13

8

ANTENNA No Contact ANTENNA Short

**NVM Error** CAP Error Α

В

С

D

Е

Logica	Radio								TV tune									Cassette	tape					9	CD-P	CD-CH													MD	MD-CH		
Diagnosis details	No diagnosis	Abnormal reset	Abnormal +B	Abnormal ACC	Abnormal MUTE	Fuse broken	Microcomputer - abnormal		RAM - abnormal	, co	F-ROM - abnormal	V-RAM - abnormal	Gate allay abnormal	Paint controller abnormal	Backup memory abnormal	Voice output controller abnormal	Internal power supply abnormal	Sync signal abnormal (input)	Sync signal abnormal (output)	ECU not connected	rmal	puo	Connecting confirmation: no response	Registered device data missing	(History of registered devices)	Master unavailable	Connecting confirmation: abnormal	Connecting confirmation: no response	Last mode abnormal	respon	Mode status abnormal	Transmission fault	Master reset		ormal	Registration completion	acknowledgement error	Voice processor ON abnormal	ON/OFF command or parameter abnormal	Registration command transmission		Diagnosis - no response
Diagnosis	800	01	10	-	12	13	20	21	22	23	24	25	26	27	28	29	2A	30	31	8		22	Δ4	DS		D6	2	80	8	M	8	2	8	8		E0		E1	E2		E4	E
Logical	address 01H																																									
Logical	Communi	-cation	control																																							

6

Antenna power supply abnormal
Radio wave beacon - no antenna connected
Optical beacon - no antenna connected
No FM antenna connected
FM receiver abnormal
Radio wave beacon abnormal

5AH 84H 5BH 83H 82H 82H 9AH

FM multiplex (VICS), radio wave beacon, beacon, optical beacon, FM multiplex (data), and FM

4 8 4

nultiplex tuner

Voice-control activation SW abnormal Multi-CD-CH (optical cable) abnormal

85H 02H

Voice

Extended

communi

-cation

table Diagnosis details	1.	Am tuner PLL unlocked FM tuner PLL unlocked	antenna c		Tuner power supply abnormal	AM tuner abnormal	FM tuner abnormal	SW tuner abnormal	TV tuner PLL unlocked		TV divergence shifting error	TV - no reception	VNR screen error	No antenna connected	power su	+B current -	SEL +B current - large		Mechanical failure or cassette broken	EJECT Tailure	I APE Jamming		Mech power supply abnormal	CD loading/unloading shormal	CD lead-in abnormal	No disc loaded	Incorrect disc	Disc unreadable	CD-ROM abnormal	CD abnormal	EJECT abnormal		Excessive current detected		Elevator abnormal	Clamp abnormal	MD mech abnormal	MD IN/OUT abnormal	MD lead-in abnormal	No disc loaded	Disc unreadable	MD-ROM abnormal	MD abnormal	EJECT error			Tray IN/OUT abnormal	Elevator abnormal	Clamp abnormal
code	code	= =	40	41	42	43	44	45	10	=	40	41	-42	43	44	45	<b>Q</b>	2;			- 47	- 43	10	1.5	12	40	41	42	43	44	45	₽   Ç	8	20	51	52	2		2 9	4-1-4	42	43	44	45	46	- 47	2 2	51	25
Diagnosis	address	H00							40H									HL9					43H	12H	63H												64H	H29											
Dia	address name	Radio							TV tuner									Cassette	tape				5	3 6	CD-CH												MD	MD-CH											
	T	-	:	:	!		-	-	-	!	-	-	-	-		rmal	E:		(in:	!		i mai	onse	G (Se	i	rmal	onse	:	se	-	-	-		-	-	lau	ormal	SSION	-	7									

HT64 communication not connected
HT64 communication abnormal
HT64 BRQ disconnection
HT64 BRQ short-circuit
HT64 disconnection

Multi-CD-CH (CarNet) abnormal Multi-CD-CH (CarNet) not connected

CarNet communication not connected

CarNet periodical communication abno

Video circuit abnormal

32H 34H

Information display/front

nonitors

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Diagnosis details

Logical address 28H 80H

Navigation

/GPS

SS section abnormal
No Time updating
TCXC abnormal
PLL lock abnormal
GPS antenna abnormal
GPS antenna power supply abnormal
Map disc reading abnormal
SPD signal abnormal
Player abnormal
High temperature abnormal

PLL unlocked

CDEC communication error
SSDEC communication error
SSDEC no response

WM error

CAP error

No antenna connected
Annenna short-circuited
Disc unreadable
DVD abnormal
ELECT abnormal
Scratches or non-ecoded side
DVD high temperature detected
Excessive current detected
Tray IN/OUT abnormal Diagnosis details Diagnosis code table 45H

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# 7.1.1 DISASSEMBLY

- Removing the Upper Case (not shown)
- 1. Remove the Case.

■ Removing the Cassette Mechanism Module (Fig.1)

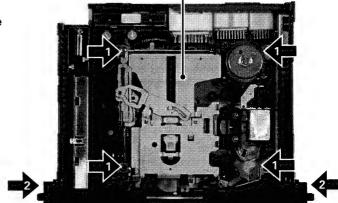


Remove the four screws and then remove the Cassette Mechanism Module.

#### ● Removing the Grille Assy (Fig.1)



Remove the two screws and then remove the Grille Assy.



Cassette Mechanism Module

Grille Assy Fig.1

### ● Removing the Front Frame (Fig.2)



Remove the three screws and then remove the Front Frame.

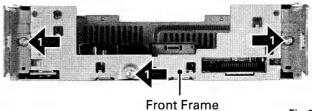


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### ● Removing the Main Unit (Fig.3)



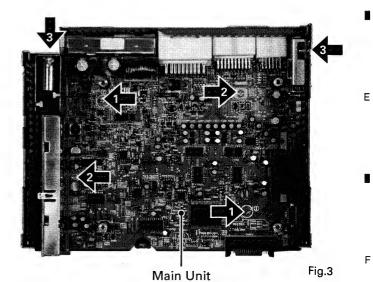
Straighten the tabs at two locations indicated.



Remove the two screws.



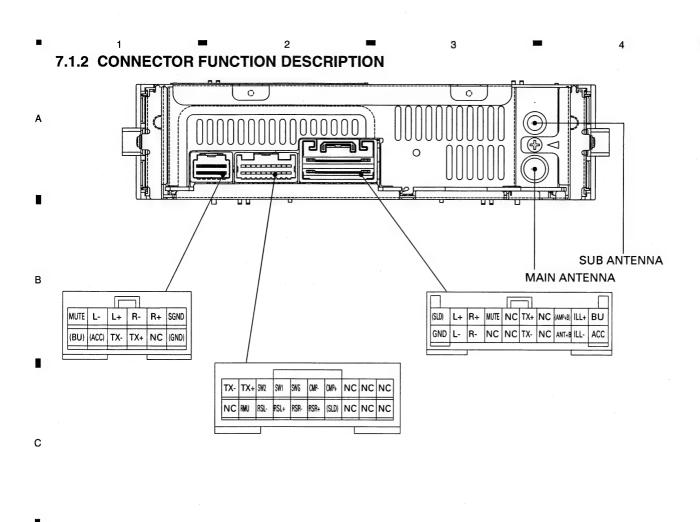
Remove the two screws and then remove the Main Unit.



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7 8 5 6 7.1.3 TROUBLE-SHOOTING Is B-UP ON? Check +B NO BSENS terminal Pin 75(IC601) (Check a power supply.) YES Is ACC ON? Turn on ACC NO ASENS terminal (Check a power supply.) Pin 73(IC601) YES Check illumination circuit? Does illumination come on? ISENS terminal Pin 2(IC601) YES Is PWR-ON enabled? Check PWRSW terminal NO POWER Pin 69(IC601) YES Is voice output? Is amplifier connected Check the following terminals Is any sound of FM, AM and NO correctly? SYSPW Pin 1(IC601) TAPE (internal sources) output? SYSMUTE2 Pin 5(IC601) SYSMUTE1 Pin 6(IC601) NO YES YES Connect amp correctly Are FM and AM Check the following terminals NO FMPW Pin 43(IC601) AMPW Pin 44(IC601) sounds output? YES Recheck hardware Is TAPE sound output? YES Check the following terminals IsTAPE mechanical unit STBY Pin 90(IC601) operated normally? CM Pin 89(IC601) YES SC1 Pin 88(IC601) SC2 Pin 87(IC601) Check the following terminals SYSPWR Pin1(IC601) Is VOL adjustment Check encoder input. enabled? ENC1- Pin 65(IC601) ENC1+ Pin 63(IC601) YES Normal operation

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7.2 IC

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● Pin Functions(PD5945A)

	011S(PD5945A)		
Pin No.	Pin Name	I/O	Function and Operation
1	SYSPWR	0	Power supply control output
2	ISENS	l i	Illumination sense input
3	KISYU		Model input
4	LAMP	Ö	Lamp power supply control(D/A) output
5	SYSMUTE2	0	System mute output for RSE
6	SYSMUTE	0	System mute output
7	RSEMUTE	0	RSE mute output
8	BYTE	1	Vss(Single chip) input
9	CNVSS	ı	CNVSS input
10	LANMUTE	0	AVC-LAN mute output
11	SWVDD	0	SWVDD output
12	RESET	ı	Reset input
13	XOUT	0	Main clock output
14	VSS	1	GND input
15	XIN		Main clock input
16	VCC	1	Power supply(2.7-5.5V) input
17	NMI		VDD input
18	RCK		RDS data clock input
19	LDET	ı	PLL lock signal input
20	NC	0	Not used
21	RX2	1	(BUS)
22	IPPW	0	BUS power supply output
23	SEL2a	0	Selector switch a output for RSE
24	NC	0	Not used
25	SEL2b	0	Selector switch b output for RSE
26	SHIMUKE	1	Model input(L, R)
27	SEL1a	0	Selector switch a output for AMP
28	SEL1b	0	Selector switch b output for AMP
29	RX1	1	(BUS)
30	TX	0	(BUS)
31	PDO	0	PLL data output
32	PDI		PLL data input
33	PCK	0	PLL data clock output
34	NC	0	Not used
35	SPDO	0	Sub tuner data output
36	SPDI	1	Sub tuner data input
37	SPCK	0	Sub tuner data clock output
38	SCE	0	Sub tuner chip enable output
39	SCPON	O .	Sub tuner power supply control output
40	SSD		Sub tuner station ON signal input
41, 42	NC_	0	Not used
43	FMPW	0	FM power output
44	AMPW	0	AM power output
45	RDSMUTE	0	RDS mute output
46	DRST	0	RDS decoder IC reset output
47	CURRO	0	Current request output
48	RDS57K		RDS 57kHz ON/OFF input
49	RDT	- !	RDS data input
50	RDSLK		RDS station ON signal input
51	LOCL	0	Local L output
52, 53	PCE1, 2	0	PLL chip enable 1, 2 output
54	SDBW	- ! -	SD bandwidth ON signal input
55	NL2	!	NL2 ON signal input
56	FMSD		FM ON signal input
57	ST	<u> </u>	Stereo input

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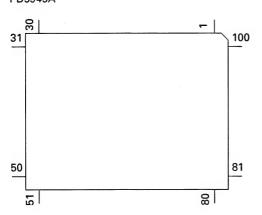
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Pin No.	Pin Name	I/O	Function and Operation
58	ROMDT	0	ROM correction data output
59	ROMCLK	0	ROM correction clock output
60	ROMCS	0	ROM correction chip select output
61	TEST	1	Test mode input
62	VCC	I	Power supply(2.7-5.5V) input
63	ENC1+	1	VOL encoder input +
64	VSS	ı	GND input
65	ENC1-	ı	VOL encoder input -
66-68	KST0-2	0	Key strobe output 0-2
69	POWER	ı	POWER key input
70-72	KDT0-2	ı	Key data input 0-2
73	ASENS	ı	ACC sense input
74	CSEJ	ı	Tape eject sense input
75	BSENS	1	Back up sense input
76	KDT3	1	Key data input 3
77	ENC2+	1	AUD encoder input +
78	ENC2-	1	AUD encoder input -
79	MS	ı	Music sense input
80	F/R	0	Head forward/reverse select output
81	PLAY	0	MS gain select output
82	MTL	ı	METAL input
83	NR	0	Dolby B NR ON/OFF output
84	CSLOAD	.1	Tape loading detect input
85	POS		Position sense input
86	ES	1	Tape end detect input
87, 88	SC2, 1	0	Sub motor control output 2, 1
89	CM	0	Capstan control output
90	STBY	0	Tape stand-by output
91	NL1	1	Noise level input
92	SSL	1	Sub tuner signal level input
93	MSL	l	Main tuner signal level input
94	ILL-	1	Illumination - input
95	STSW2	ı	Stearing SW 2 input
96	AVSS		A/D converter GND input
97	STSW1	ı	Stearing SW 1 input
98	VREF	ı	A/D converter reference voltage input
99	AVCC	i	A/D converter power supply input
100	ANTB	0	Antenna power supply control output

## \* PD5945A



IC's marked by \* are MOS type.

Be careful in handling them because they are very liable to be damaged by electrostatic induction.

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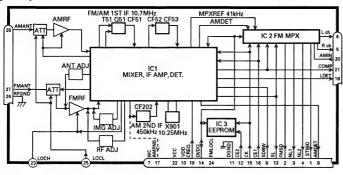
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No.	Symbol	1/0	Explain	
1	STIND	Ó	stereo	"Low" when the FM stereo signals are received.
			indicator	To be pulled up to the "VDD" at $47k\Omega$ .
2	FMSD	0	FM station	"High" when signals are received. To be pulled up to the "VDD" at $47k\Omega$
			detector	Meanwhile, $10k\Omega$ should be used when taking diver FIX trigger from here
				and "High: 0.9VDD or more" and "Low: 250mV or less".
				(Should satisfy the diver IC specifications)
3	NL1	0	noise level-1	"High" when noise is received. Output for the RDS. GND at $47k\Omega//1,800pF$ .
4	NL2	0	noise level-2	"High" when noise is received. Output for the RDS. GND at $36k\Omega//330pF$ .
5	Rch	0	R channel	FM stereo "R-ch" signal output or AM audio output.
			output	Add the specified de-emphasis constant.
6	Lch	0	L channel	FM stereo "L-ch" signal output or AM audio output.
			output	Add the specified de-emphasis constant.
7	wc		write control	EEPROM write control. Writing permissible at "Low". Normally open.
		0	SD bandwidth	SD bandwidth signal output. For detection of detuning data for the RDS.
9	AMDET	0	AM detector	AM detector output. $r \text{ out} < 100\Omega$
			output	
10	VDD		power	Power supply pin for the digital section.
			supply	DC 5V +/- 0.25V. Be careful about overlapping noise in the logic section.
11	DGND		digital ground	Grounding for the digital section.
12	CE2		chip enable-2	EEPROM chip enable. Active a "Low"
				To be pulled up to the "VDD" at $47k\Omega$
13	SL	1/0	signal level	Received FM/AM signal level (strength) output.
				Connect the specified load resistor and capacitor (10k $\Omega$ + 39k $\Omega$ //4,700pF)
14	DI/DO	1/0	data input/	Data input/Data output
			data output	To be pulled up to the "VDD" at $47k\Omega$
15	CK	1	clock	Clock input To be pulled up to the "VDD" at 47kΩ
16	CE1		chip enable-1	AF·RF chip enable. Active at "High"To be grounded at 47kΩ
	AMPNS	0	AM PNS IF signal	IF signal output for AM PNS circuit.
	LDET	0	lock detector	Active at "Low". To be pulled up to the "VDD" at $47k\Omega$
	CREQ		current request	Active at "Low". To be grounded at $47k\Omega$
20	AMINI		AM audio input	The frequency response and the level are set by connecting an external CR
				network with terminal AMIN as terminal AMDET. $r in = 50k\Omega$
	COMP	0	composite signal	FM composite signal output. $r$ out $< 100\Omega$
22	VCC		power supply	Analog section power supply pin.DC 8.4V +/- 0.3V
	LOCH	1	local high	FM local high pin. When seeking local high, apply 5V together with "LOCL".
24	<b>FMLOCL</b>	1	FM local low	FM local low pin. When seeking local low, apply 5V to the base of the NPN
				transistor with which the specified resistor is being connected to the emitter.
				Keep it open in case of ordinary marketed models.
25	LOCL	1	local low	FM/AM local low pin. When seeking local low, apply 5V to the base of the
				NPN transistor. Since this pin is exclusive for AM when the FMLOCL is in use,
				do not drive it under FM.
	RFGND		RF ground	Grounding for the antenna section.
27	FMANT	1	FM antenna input	FM antenna input. 75 $\Omega$ . Surge absorber (DSP-201M-S00B) is necessary.
28	AMANT	1	AM antenna input	AM antenna input. High impedance.
			·	Connect to the antenna through an L (LAU type) of 4.7µH.To cope with the
				power transmission line hums, insert a series circuit consisting of an L
				(a coil of about 100mH) + R (a resistor of 470 $\Omega$ to 2.2k $\Omega$ ) between the GND.

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# 7.3 EXPLANATION 7.3.1 SYSTEM BLOCK DIAGRAM

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+B, ACC AVC-LAN KEX-M8547ZT/EW KEX-M8647ZT/EW +B, ACC **SPEAKER** L/R **EMV AMPLIFIER** 1DIN AVC-LAN **HEAD UNIT** OTHER MAKERS PIONEER AVC-LAN CD-CH **PIONEER** 

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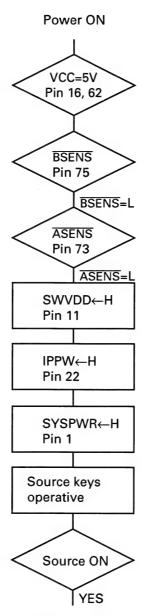
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Completes power-on operation. (After that, proceed to each source operation)

KEX-M8547ZT/EW

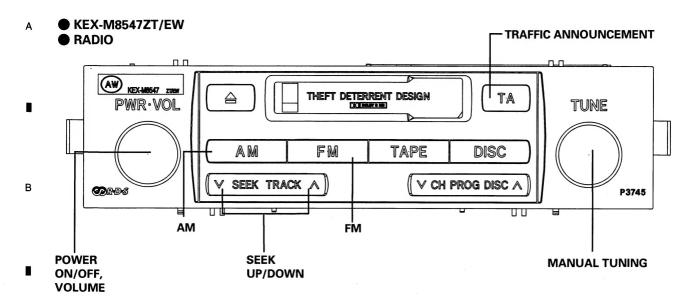
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Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
Cassette heads Pinch rollers Capstans	Cleaning paper : GED-008

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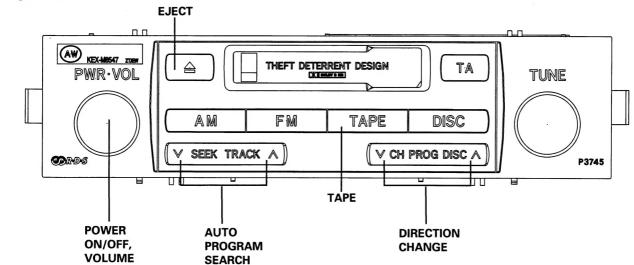
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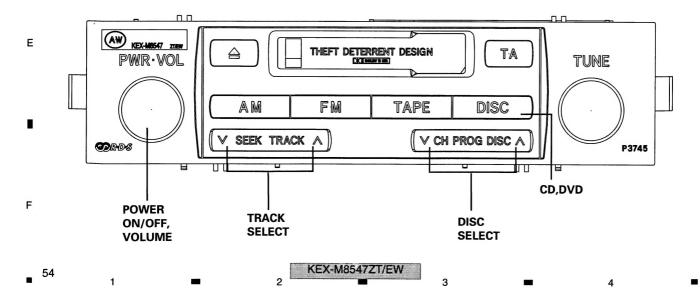
TAPE

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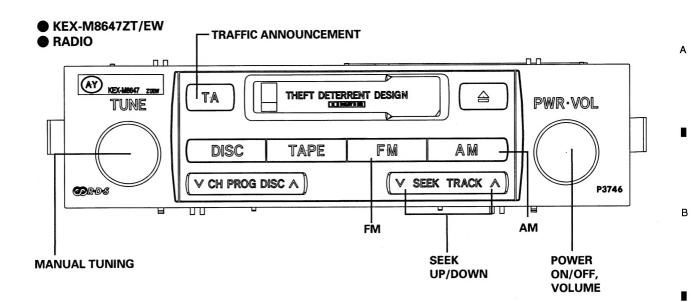
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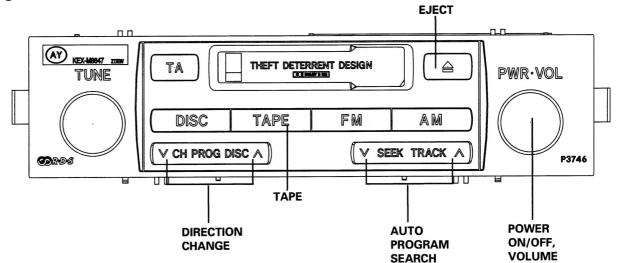
CD, DVD



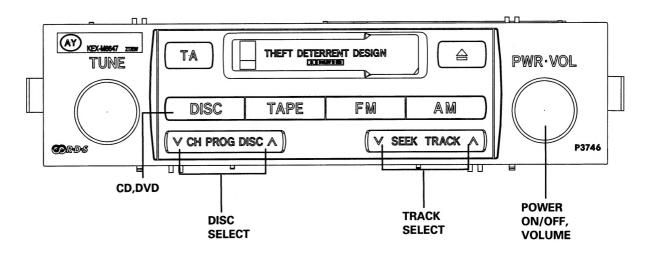




#### **● TAPE**



#### CD, DVD



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Jigs List

1

Name Jig No. Remarks Extension cord GGD1169 Adjustment GGD1240 Extension cord Adjustment Extension cord GGD1304 Adjustment Extension cord GGD1346 Adjustment Extension cord GGD1121 Cassette mechanism module adjustment Test tape NCT-150 Cassette mechanism module adjustment Cleaning paper GED-008 Cleaning cassette heads, pinch rollers and capstans

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